VOLUME II

1486

39¢

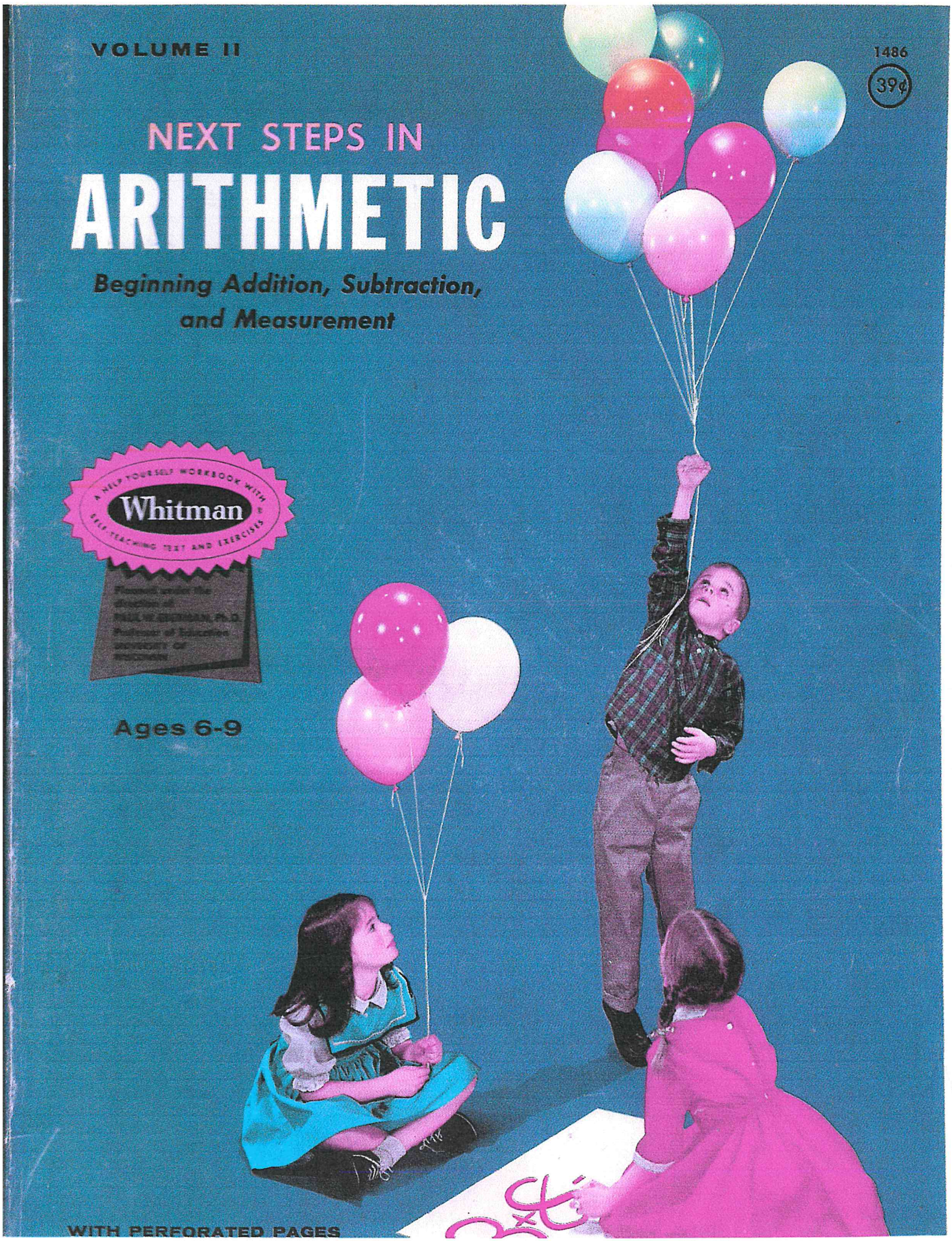
NEXT STEPS IN ARITHMETIC

Beginning Addition, Subtraction, and Measurement

A HELP YOURSELF WORKBOOK WITH SELF-TEACHING TEXT AND EXERCISES

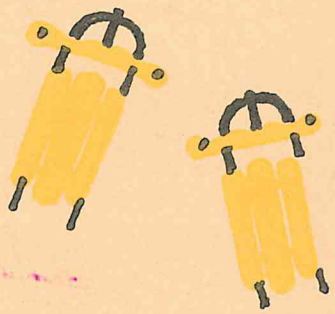
Whitman

Ages 6-9

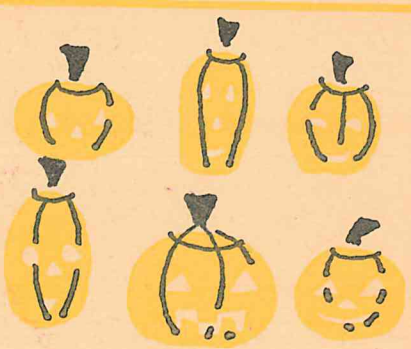


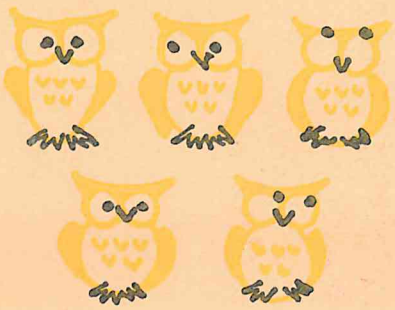
WITH PERFORATED PAGES

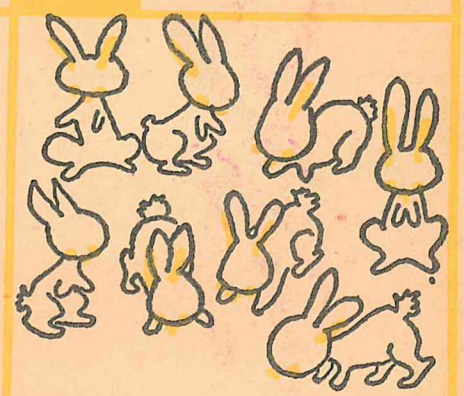
Count how many in each picture.
Write the number in the box.
Write the number word that tells how many on the line.



2 two

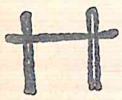


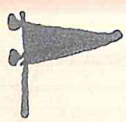




Check your answers with page 5.

Look at the number or number word next to the picture. Draw that many pictures.





Check your answers with page 6.

Answers for page 2:

1.  one
2. two
3. three
4. four
5. five
6. six
7.  seven
8. eight
9.  nine

Write the missing number.
Make that many dots on the colored line.

1. 3, 4, 5 ● ● ● ● ●
2. 7, 8, 9
3. 3, 4, 5
4. 1, 2, 3
5. 5, 6, 7
6. 7, 8, 9
7. 1, 2, 3
8. 3, 4, 5
9. 6, 7, 8

Fill in the spaces with numbers.

1, 2, 3, 4, 5, 6, 7, 8, 9

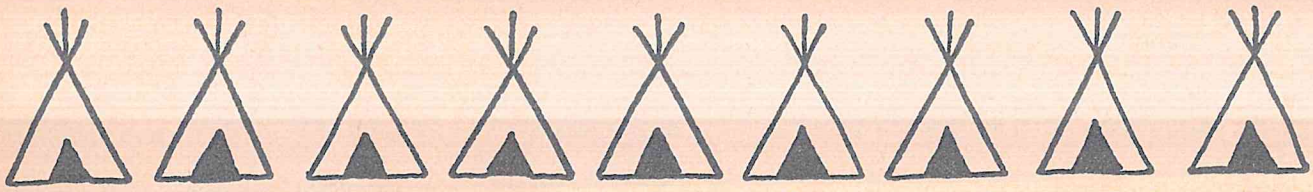
Fill in the spaces with number words.

one, two, three, four, five,
six, seven, eight, nine

Check your answers with page 7.

Answers for page 3:

4–four	2–two	9–nine
1–one	6–six	3–three
5–five	7–seven	8–eight



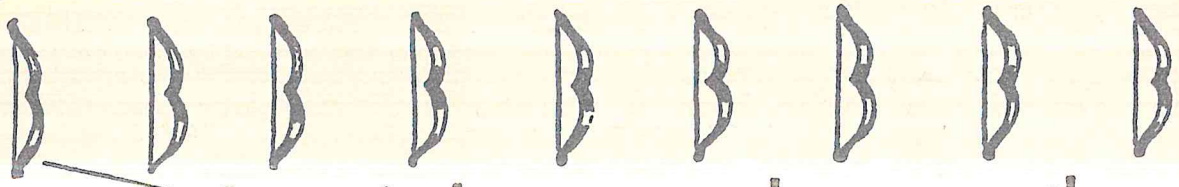
first second third fourth fifth sixth seventh eighth ninth

Here are nine  s in a row.

The word below each  tells which one it is from the left.

Look at this row of  s.

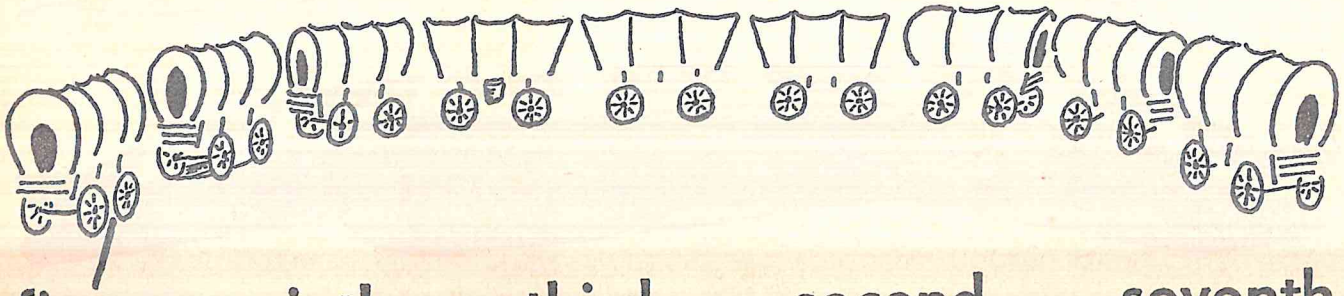
Draw an ⟶ to the word that tells which  it is in the row.



fourth sixth second seventh

ninth third first fifth eighth

Draw a line to the word that tells which one.

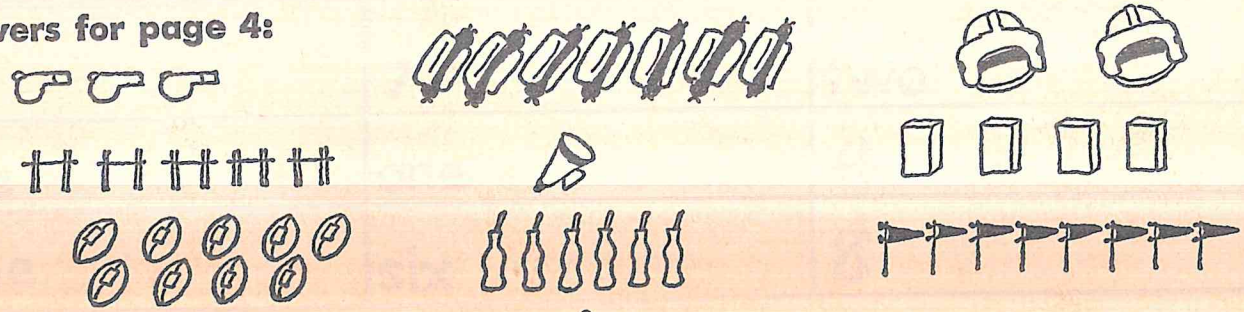


first ninth third second seventh

sixth eighth fifth fourth

Check your answers with page 8.

Answers for page 4:



Which one?

Look at the 

 is the first face.

 is the fourth face.

1. This  is third
2. This  is seventh
3. This  is eighth
4. This  is forth
5. This  is fifth
6. This  is first
7. This  is Sixth

8. Which one comes after the first one? second

9.  is last.

Which one is it? ninth

Answers for page 5:

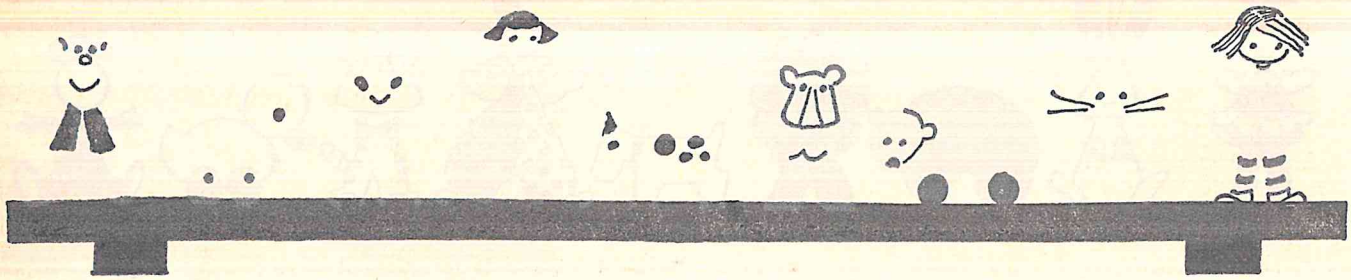
1. 5	4. 2	7. 1
2. 8	5. 6	8. 4
3. 3	6. 9	9. 7

1, 2, 3, 4, 5, 6, 7, 8, 9

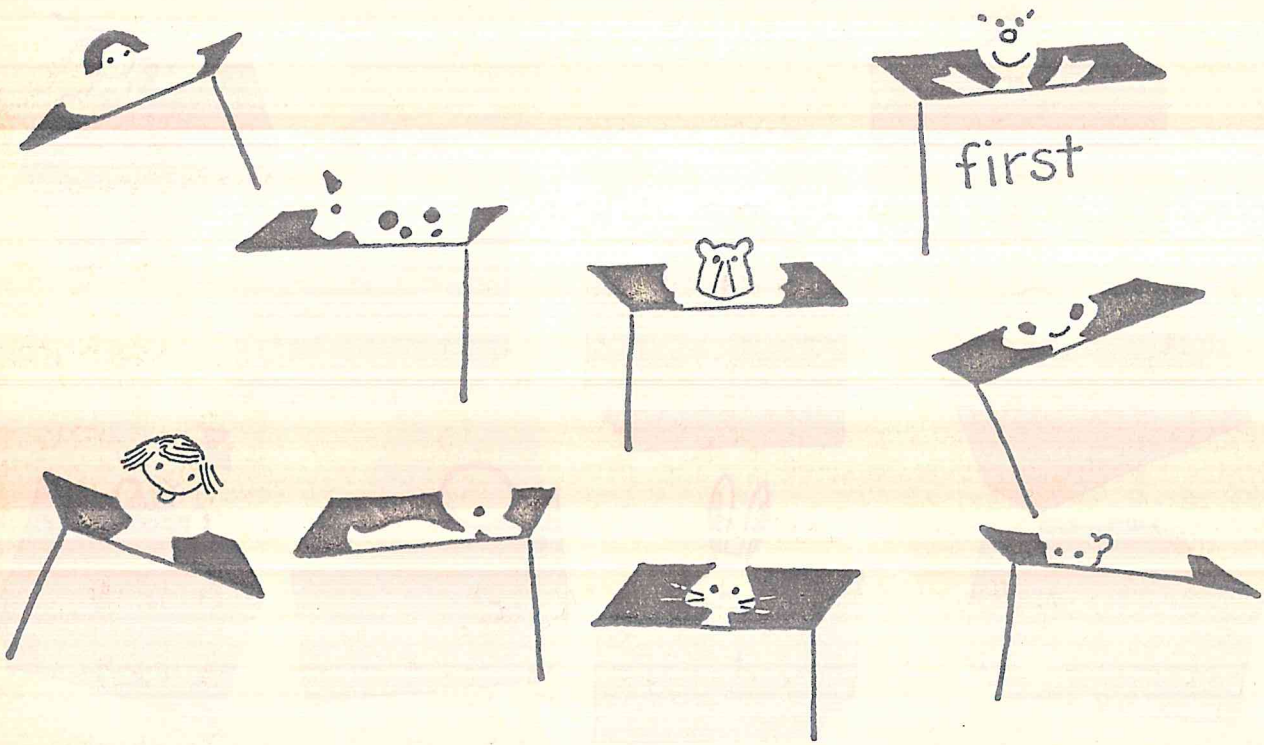
one, two, three, four, five, six, seven, eight, nine

Check your answers with page 9.

Ann likes to keep her toys in a row like this.



Ann is moving into a new house. She wants to put her toys in a row like this at her new house. Her monkey is first in the row. Ann puts _____ on the monkey box. Can you put a word on each box below so Ann will know where to put each toy in her new house?

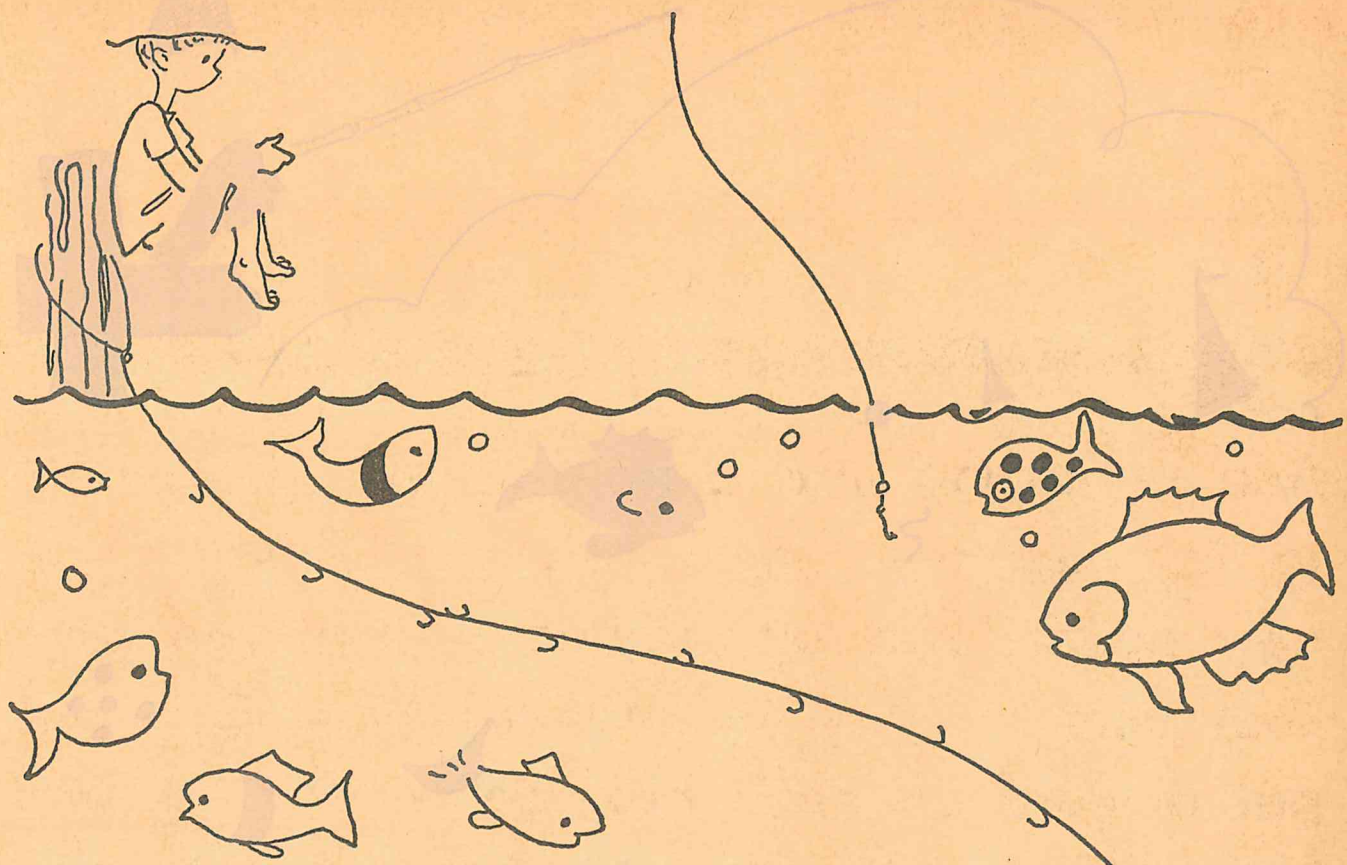


Check your answers with page 10.

Answers for page 6:

first, second, third, fourth, fifth, sixth, seventh, eighth, ninth

first, second, third, fourth, fifth, sixth, seventh, eighth, ninth



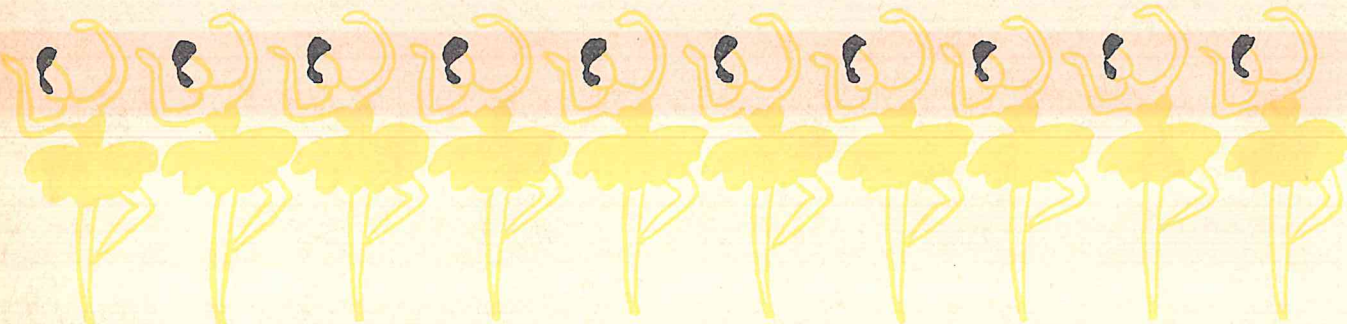
Tom caught a black fish.
He put it on a line to keep.
Then he caught more fish.
He put them on the line, too.
Draw the fish on Tom's line.
Put the smallest fish second,
the biggest fish sixth,
the brown fish fourth,
the fish with black dots third,
the fish with a black stripe fifth,
the fish with brown dots eighth,
the fish with a brown stripe ninth,
the fish with the brown tail seventh.

Answers for page 7:

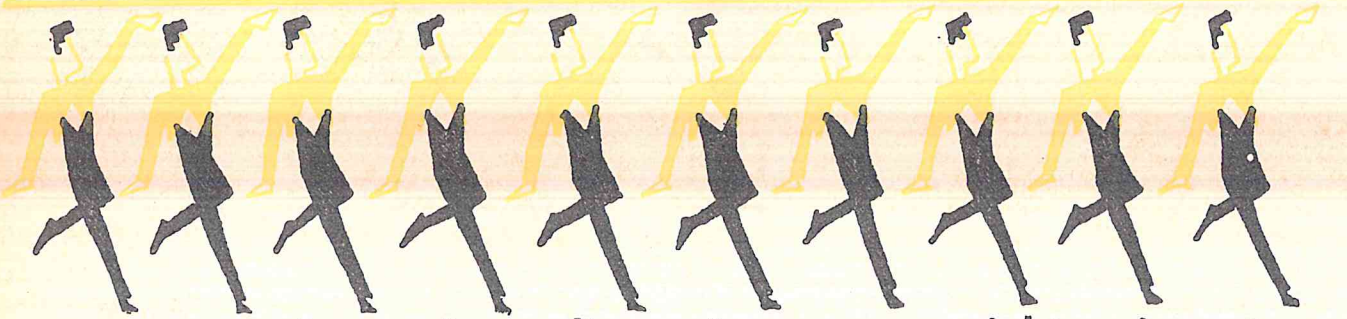
1. third
2. seventh
3. eighth
4. fourth
5. fifth
6. first
7. sixth
8. second
9. ninth

Check your answers with page 11.

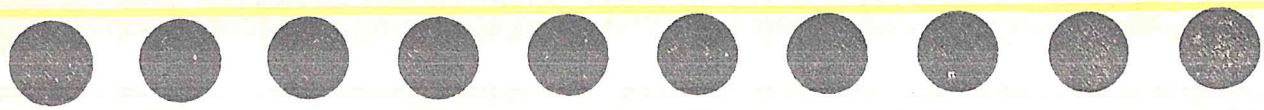
What is ten?



one two three four five six seven eight nine ten



one two three four five six seven eight nine ten



1 2 3 4 5 6 7 8 9 10

Write the number word. Write the number.

ten _____ _____ 10 _____

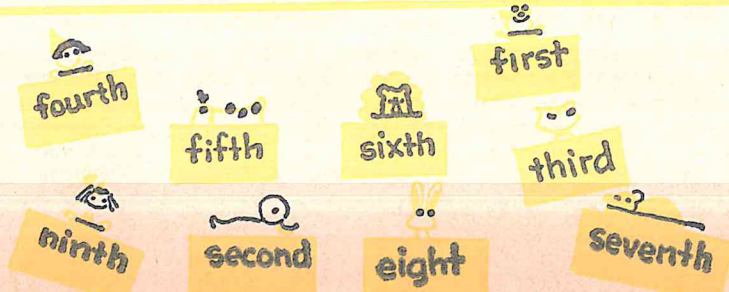
_____ _____ _____ _____

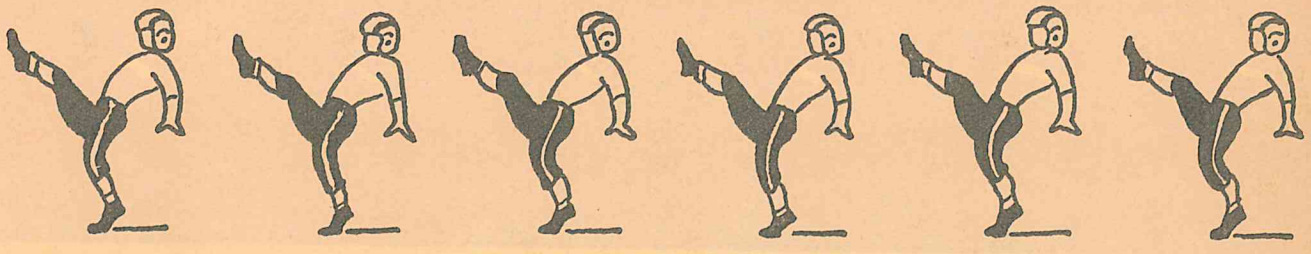
_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

Answers for page 8:





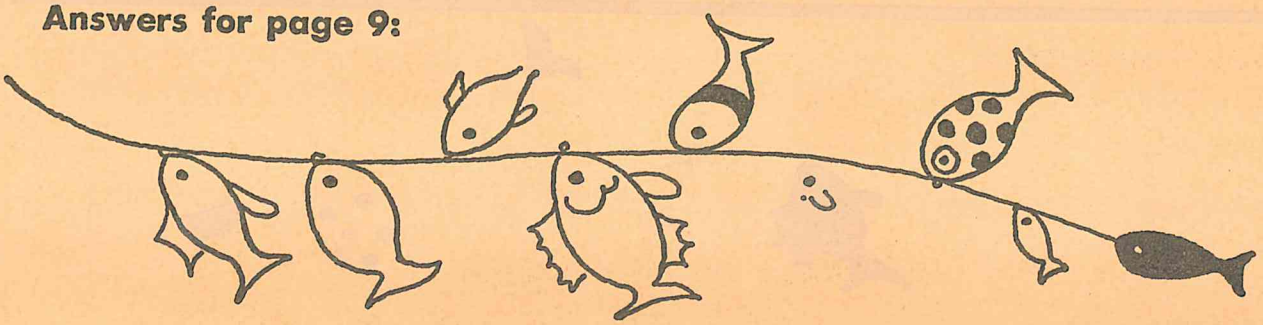
one two three four five six

seven eight nine ten eleven

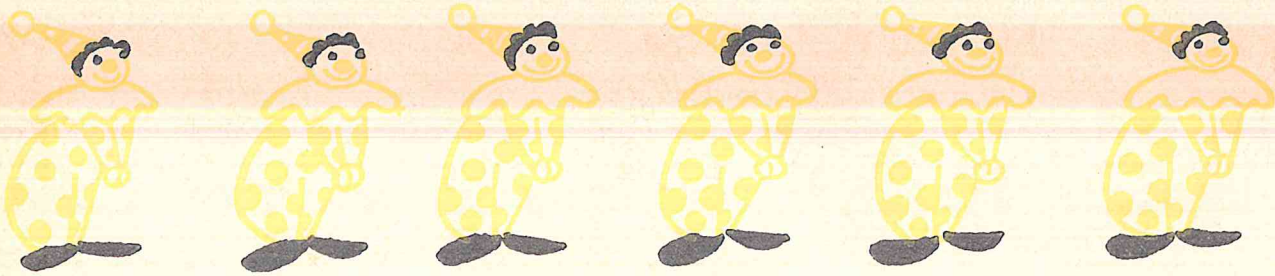
1 2 3 4 5 6 7 8 9 10 11

Write the number word. **Write the number.**

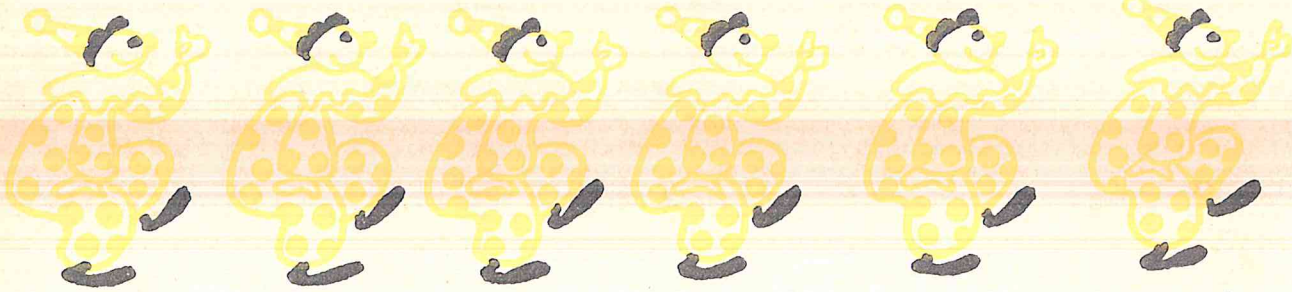
Answers for page 9:



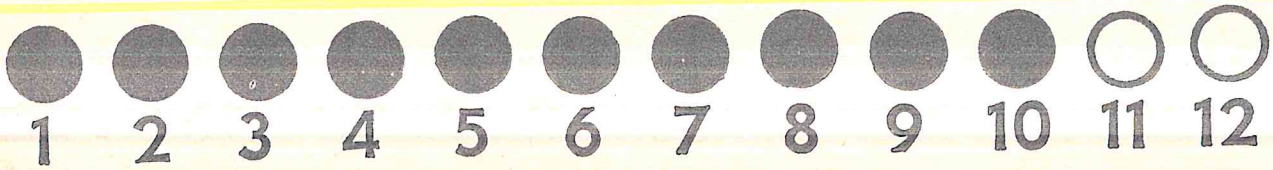
What is twelve?



one two three four five six



seven eight nine ten eleven twelve



1 2 3 4 5 6 7 8 9 10 11 12

Write the number word.

twelve

Write the number.

12

one two three four five six seven

eight nine ten eleven twelve thirteen

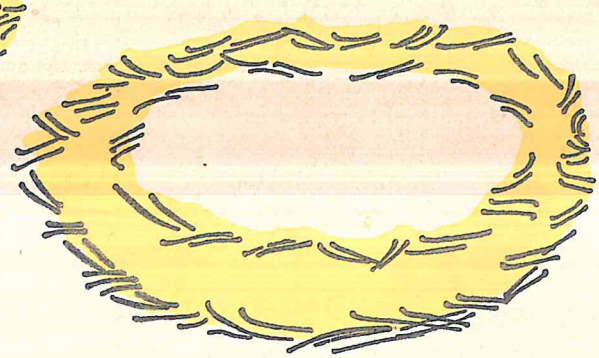
1 2 3 4 5 6 7 8 9 10 11 12 13

Write the number word.

Write the number.

1. Here is a nest. 

Here is an egg.



Draw ten eggs in the big nest.

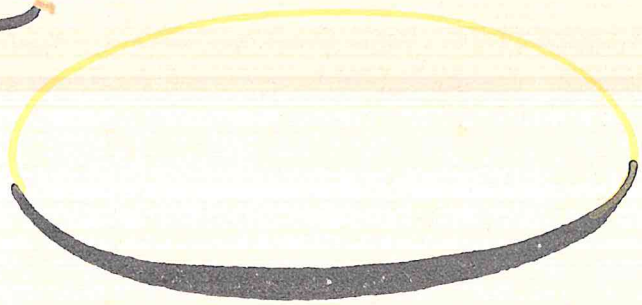
2. Here is a bee.

Here is a beehive.

Draw eleven bees for the big beehive.

3. Here is a plate.

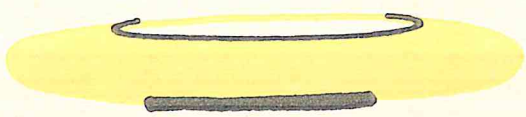
Here is a cookie.



Draw twelve cookies on the big plate.

4. Here is a vase.

Here is a flower.

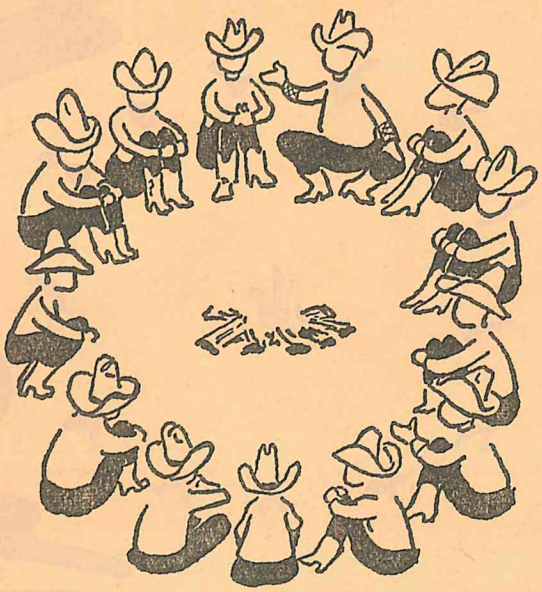


Draw thirteen flowers in the big vase.

Check your answers with page 16.

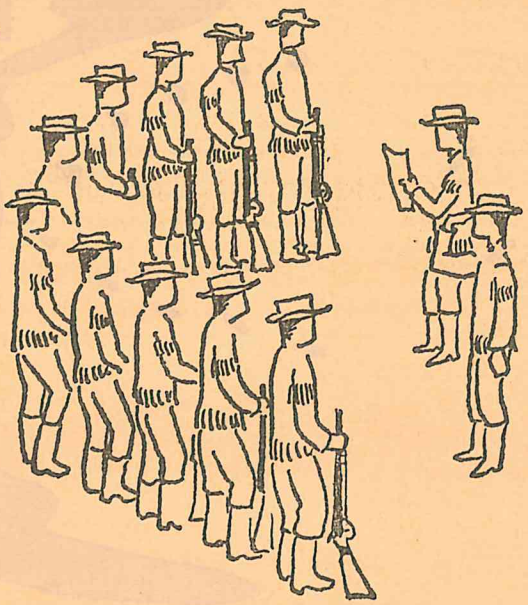
Count how many in each picture.
Write the number in the box below.
Write the number word on the line.

1.

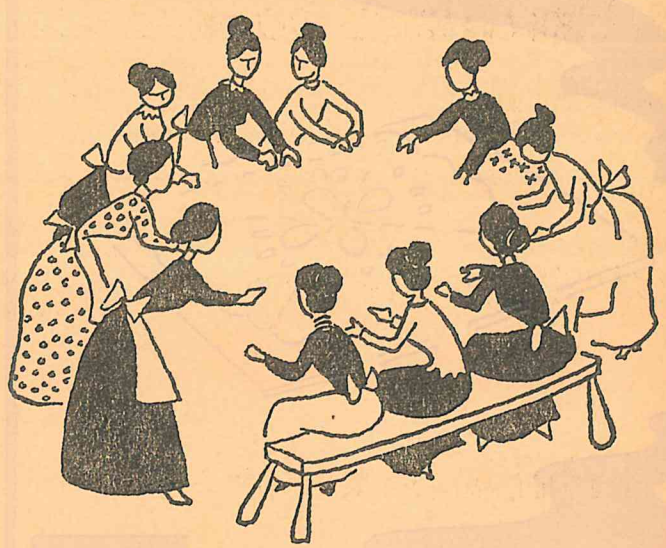


2.

3.

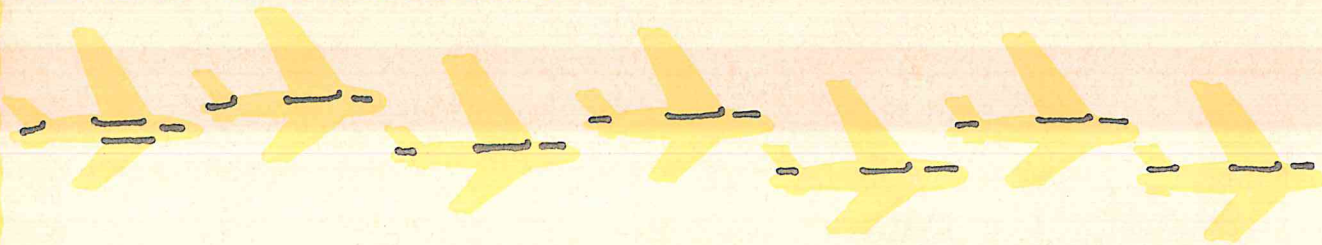


4.

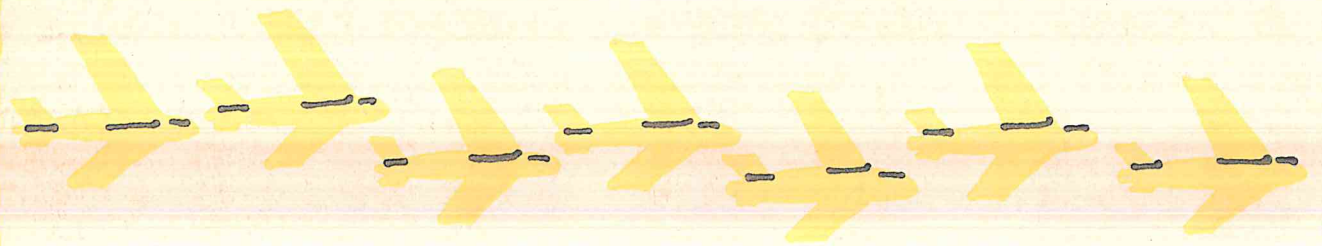


Check your answers with page 17.

What is fourteen?



one two three four five six seven



eight nine ten eleven twelve thirteen fourteen

1 2 3 4 5 6 7 8 9 10 11 12 13 14

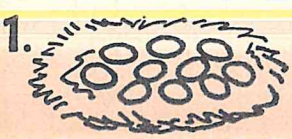
Write the number word.

fourteen

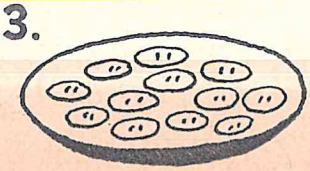
Write the number.

14

Answers for page 14:

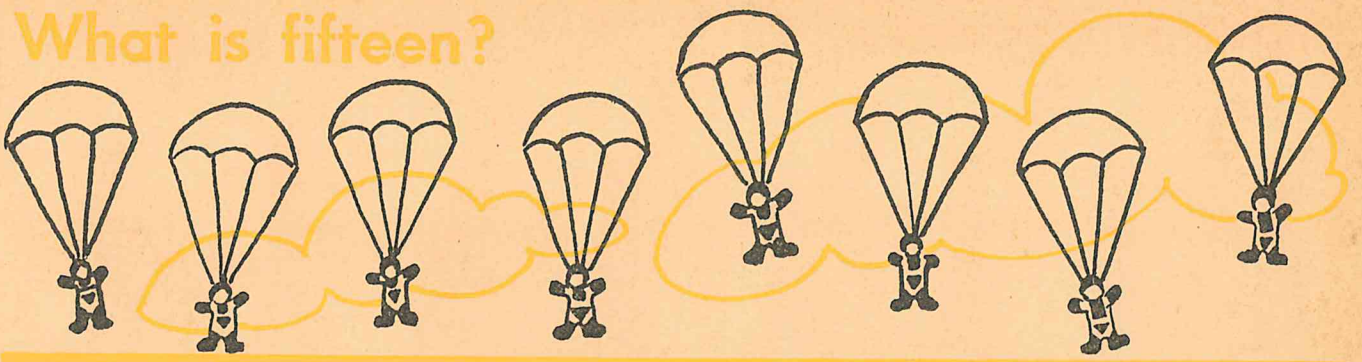
1. 

2. 

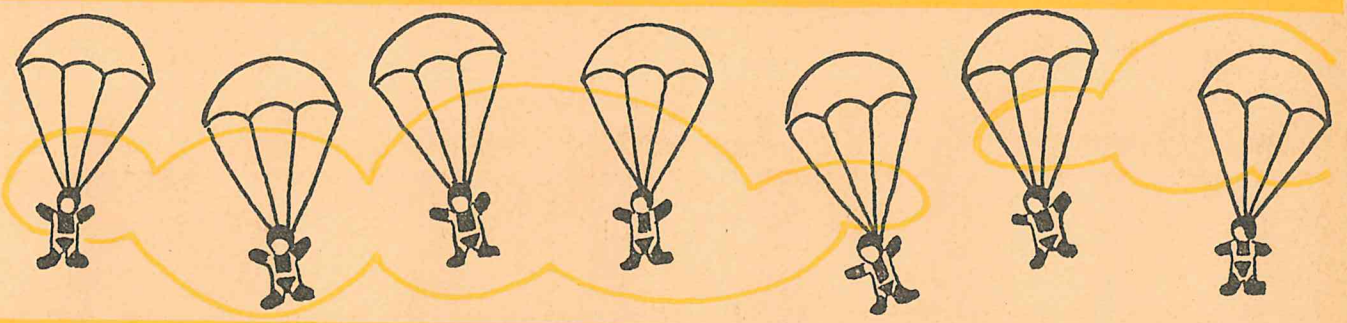
3. 

4. 

What is fifteen?



one two three four five six seven eight



nine ten eleven twelve thirteen fourteen fifteen

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

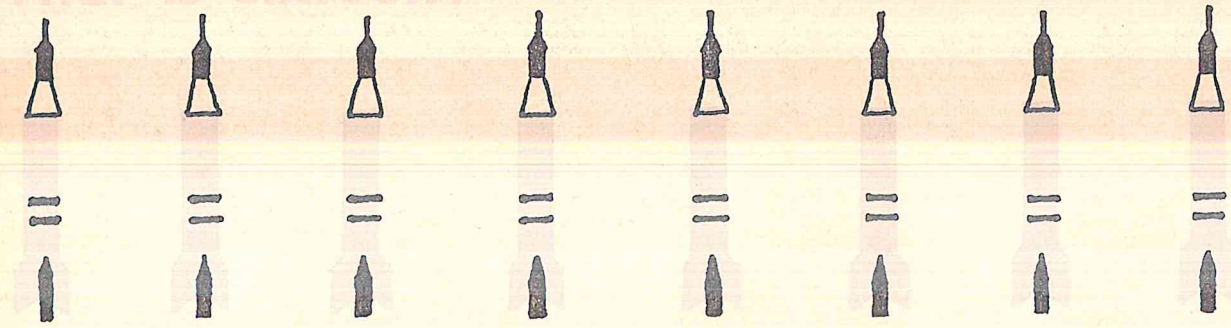
Write the number word.

fifteen

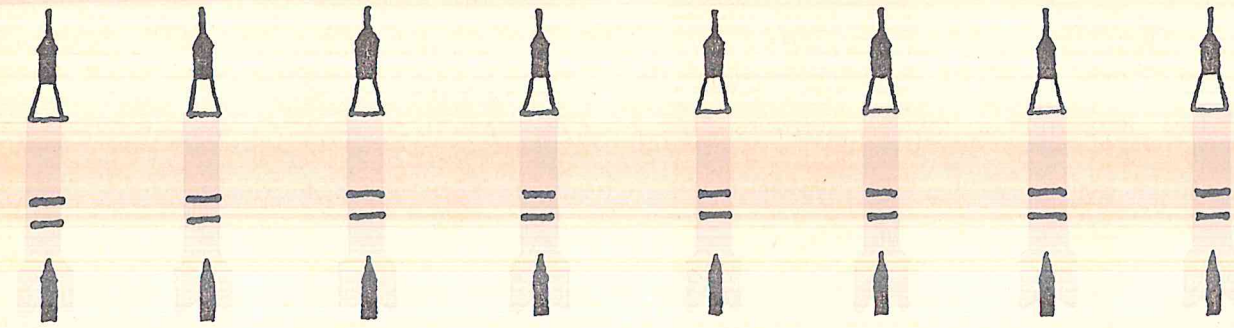
Write the number.

15

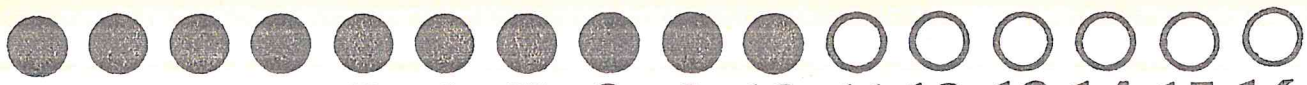
Answers for page 15: 1. 13, thirteen 2. 11, eleven 3. 12, twelve 4. 10, ten



one two three four five six seven eight



nine ten eleven twelve thirteen fourteen fifteen sixteen



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Write the number word.

sixteen

Write the number.

16

What is seventeen?

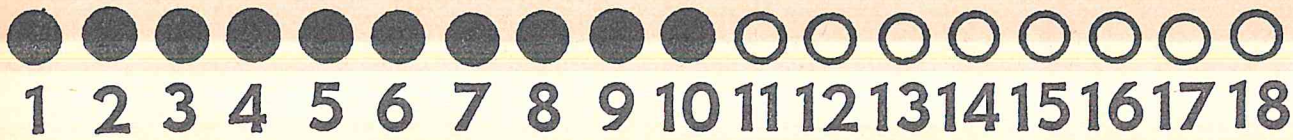
one
two
three
four
five
six
seven
eight
nine
ten
eleven
twelve
thirteen
fourteen
fifteen
sixteen
seventeen

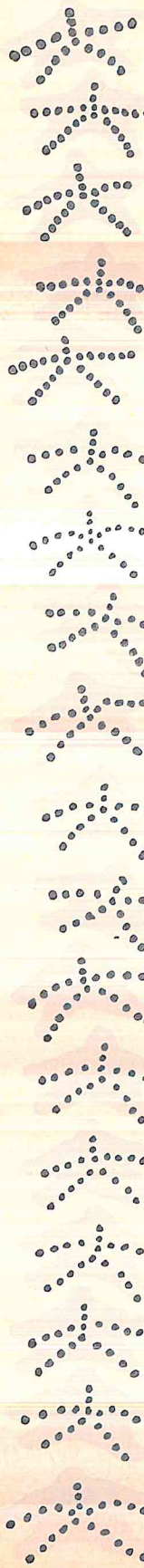
Write the number word.

seventeen

Write the number.

17





one

two

three

four

five

six

seven

eight

nine

ten

eleven

twelve

thirteen

fourteen

fifteen

sixteen

seventeen

eighteen

Write the number word.

Write the number.

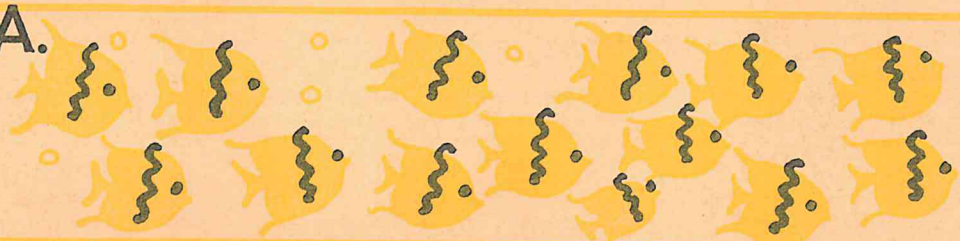
Draw a line from the number
to the number word.

18 15 17 16 14

sixteen fourteen eighteen

seventeen fifteen

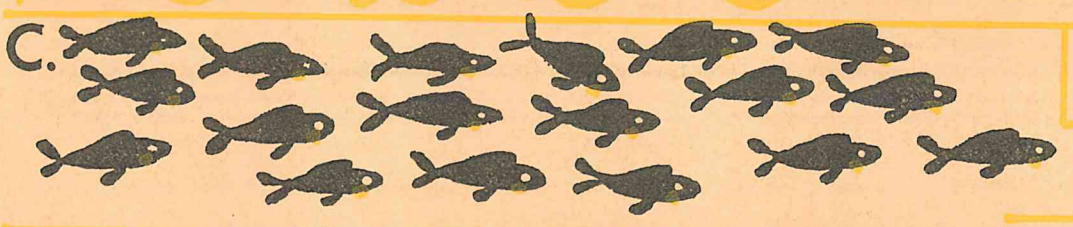
Count how many  are in each picture.
Write the number in the box.
Write the number word on the line.

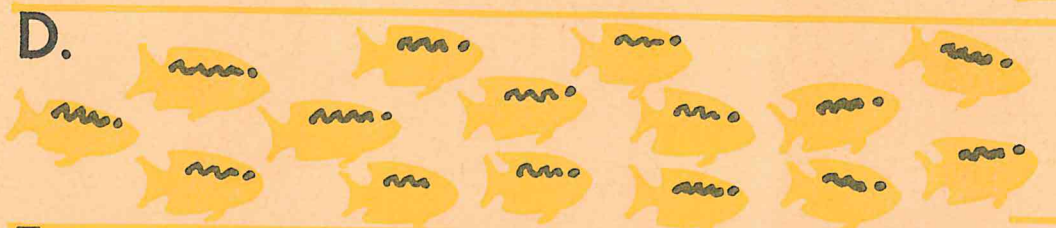
A. 

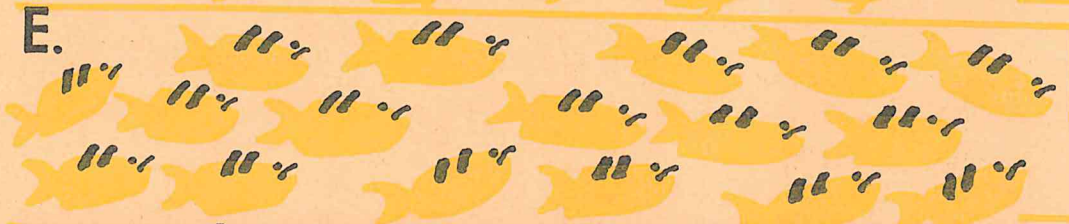
14

fourteen

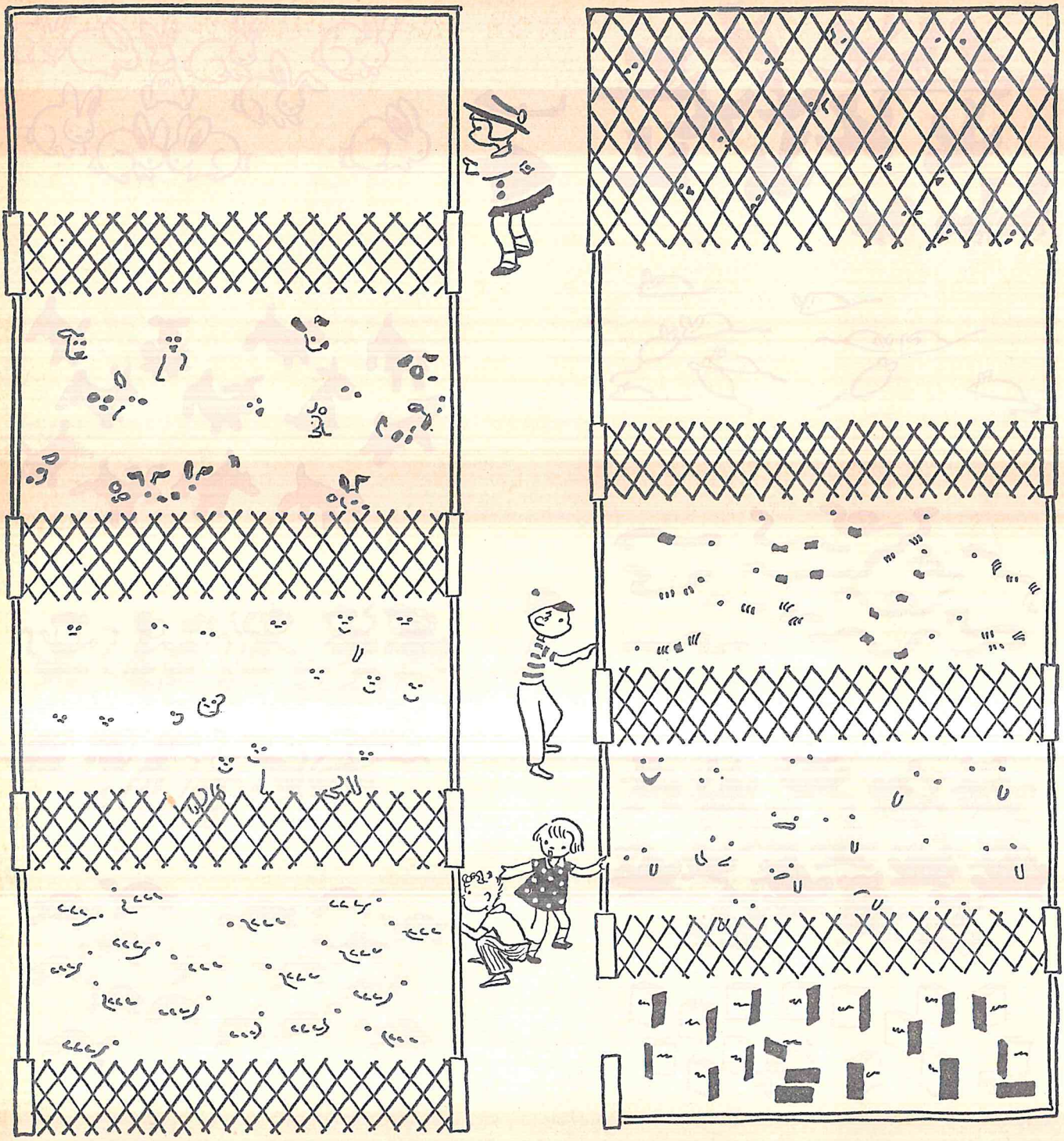
B. 

C. 

D. 

E. 

Check your answers with page 23.



How many?

1. ____ s
2. ____ s
3. ____ s
4. ____ s
5. ____ s
6. ____ s
7. ____ s
8. ____ s

9. ____ s

Check your answers with page 24.

Can you write the words that tell which one.

first	first	
second		
third		
fourth		
fifth		
sixth		
seventh		
eighth		
ninth		
tenth		
eleventh		
twelfth		
thirteenth		
fourteenth		
fifteenth		
sixteenth		
seventeenth		
eighteenth		

Answers for page 21:

18–eighteen, 15–fifteen, 17–seventeen, 16–sixteen, 14–fourteen

B. 16, sixteen C. 18, eighteen D. 15, fifteen E. 17, seventeen

Which one?

second sixth first third seventh

fourth

fifth

ninth

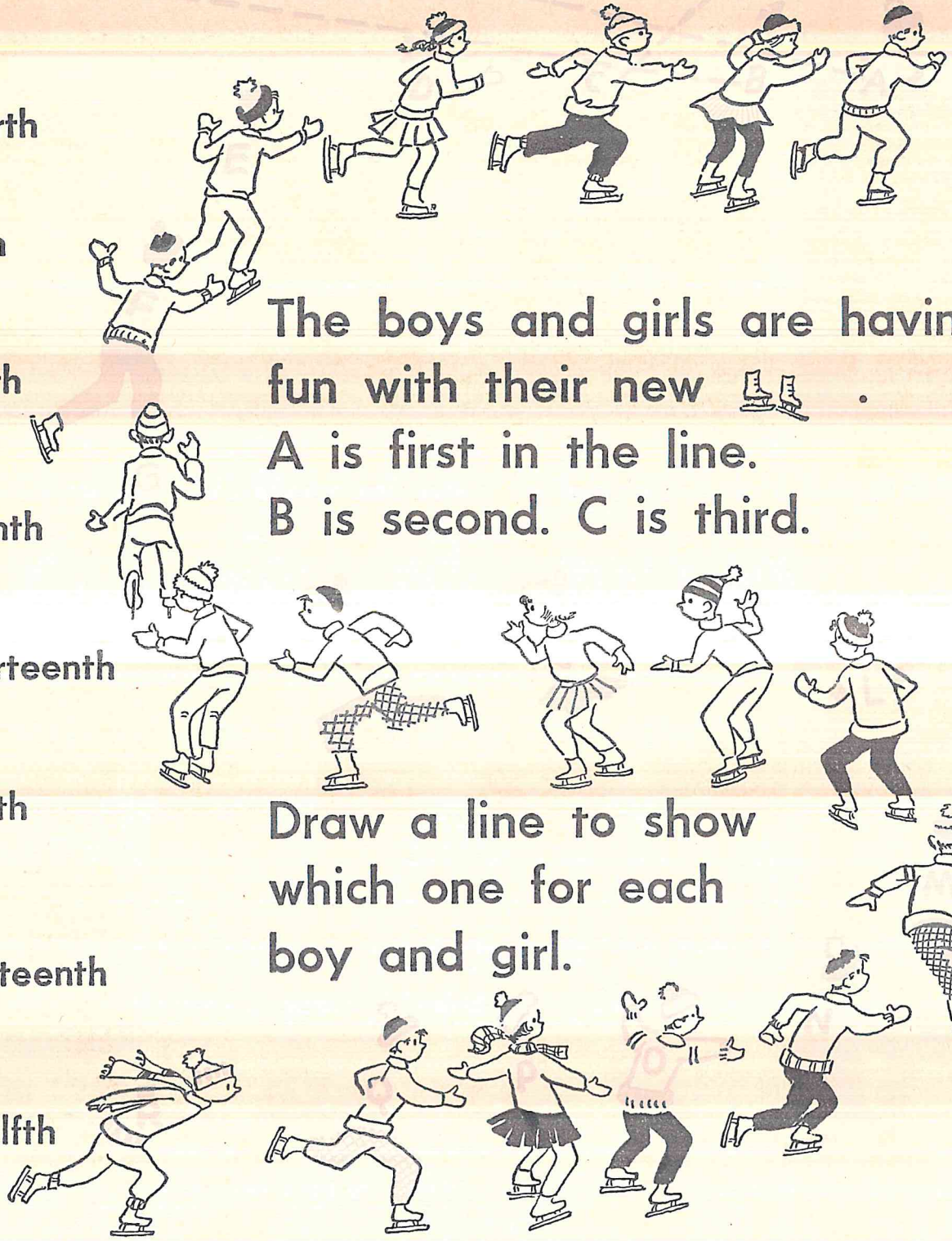
eighth

fourteenth

tenth

thirteenth

twelfth



The boys and girls are having fun with their new .

A is first in the line.
B is second. C is third.

Draw a line to show which one for each boy and girl.

sixteenth eleventh eighteenth fifteenth seventeenth

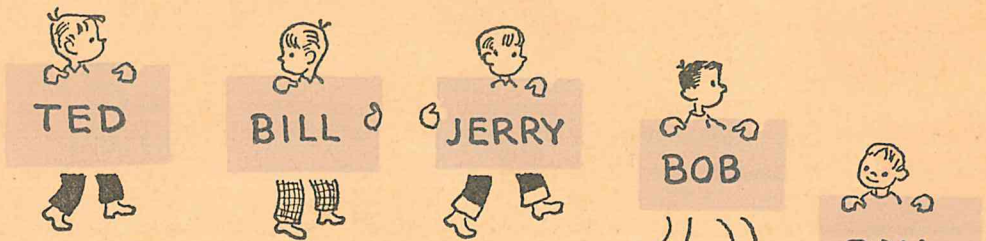
Check your answers with page 26.

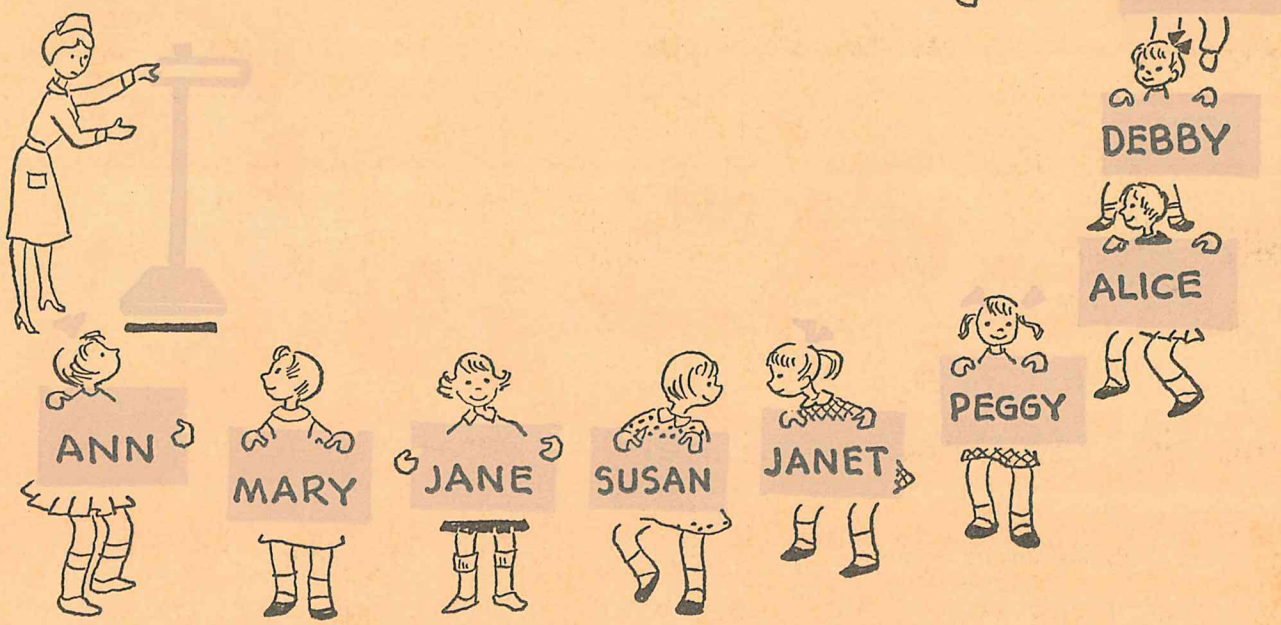
Answers for page 22:

1. 10 2. 18 3. 16 4. 13 5. 12 6. 17 7. 15 8. 14 9. 11

If Ann is first in line and Peggy is sixth in line, which one is Susan? She is fourth.
Write the name of the boy or girl who is:

1. eighteenth–_____
2. sixteenth–_____
3. eleventh–_____
4. fourteenth–_____
5. tenth–_____
6. seventeenth–_____
7. twelfth–_____
8. thirteenth–_____





Check your answers with page 27.

Here are boxes for the boys and girls.
Bill gets the first box.
Jim gets the fourth one.
Alice's box is <u>eighteenth</u>

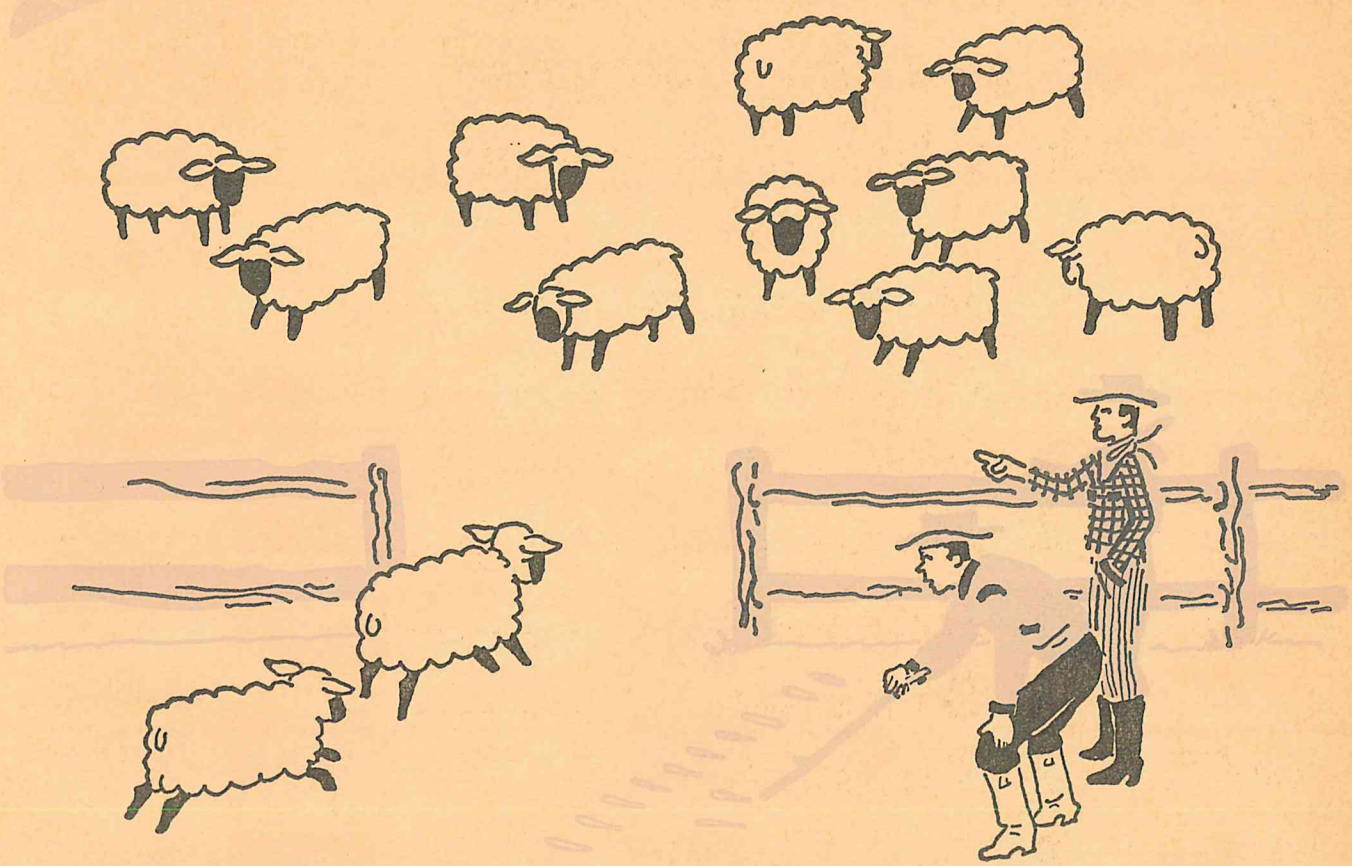
ALICE
JANE
JACK
JOE
TOM
DICK
MARY
ANN
JILL
JOHN
JERRY
BOB
DEBBY
DAN
JIM
JANET
PEGGY
BILL

1. Joe's box is _____
2. Ann's box is _____
3. Jack's box is _____
4. Mary's box is _____
5. Jane's box is _____
6. Dick's box is _____
7. Tom's box is _____
8. Jill's box is _____
9. Jim's box is _____
10. Bob's box is _____

Check your answers with page 28.

Answers for page 24:

D. fourth E. fifth F. sixth G. seventh H. eighth I. ninth
J. tenth K. eleventh L. twelfth M. thirteenth N. fourteenth
O. fifteenth P. sixteenth Q. seventeenth R. eighteenth



The man counts his  .
There are 10 _____ and 2 _____.
The man has 12 sheep.

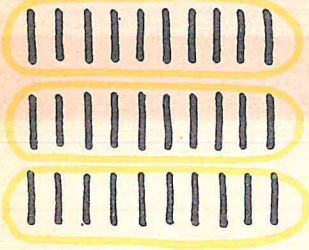
|||||||||||| Here are 12 ones. Count them.
Draw a line around 10 of the ones.

|||||||||| || You have 1 ten and 2 ones.

|||||||||| ||| 1 ten and 3 ones are 13.

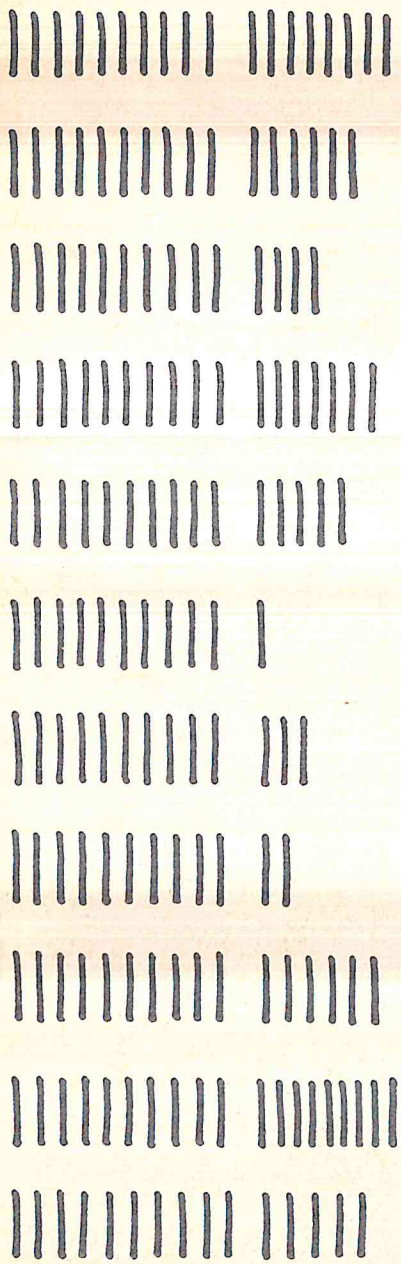
|||||||||| |||| 1 ten and 4 ones are 14.

Answers for page 25: 1. Dick 2. Jack 3. Jerry
4. John 5. Bob 6. Tom 7. Bill 8. Ted



1 ten and 1 one are 11.
1 ten and 2 ones are 12.
1 ten and 5 ones are 15.

Draw a line around 1 ten. Write how many tens and ones you need to make the number.

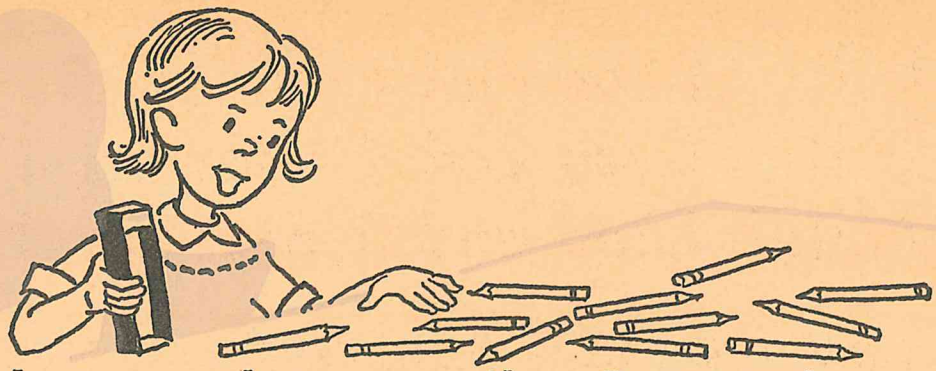


1. ___ ten and ___ ones are 18.
2. ___ ten and ___ ones are 16.
3. ___ ten and ___ ones are 14.
4. ___ ten and ___ ones are 17.
5. ___ ten and ___ ones are 15.
6. ___ ten and ___ one are 11.
7. ___ ten and ___ ones are 13.
8. ___ ten and ___ ones are 12.
9. ___ ten and ___ ones are 16.
10. ___ ten and ___ ones are 19.
11. ___ ten and ___ ones are 15.

Check your answers with page 30.

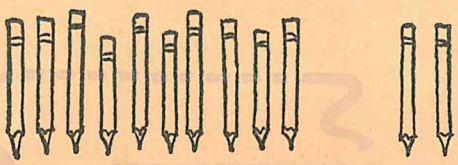
Answers for page 26:

1. fifteenth 2. eleventh 3. sixteenth 4. twelfth 5. seventeenth 6. thirteenth 7. fourteenth 8. tenth 9. fourth 10. seventh

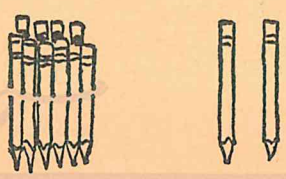


Jane has twelve pencils. Count them.

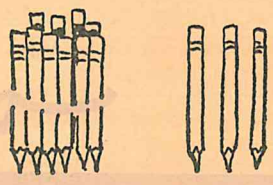
She ties ten pencils together.
Now she has 1 ten and 2 ones.



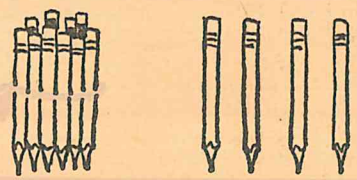
1 ten and 2 ones



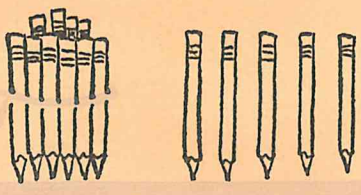
1 ten and 2 ones are 12.



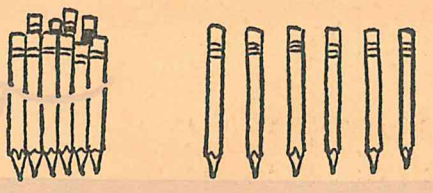
1 ten and 3 ones are 13.



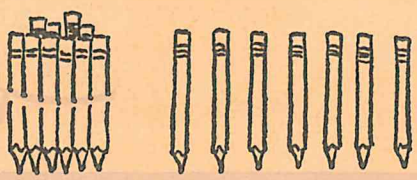
1 ten and 4 ones are 14.



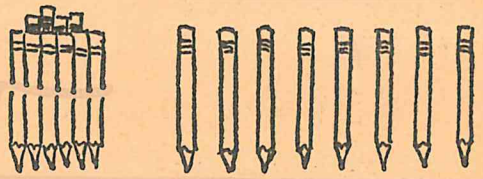
1 ten and 5 ones are _____.



1 ten and 6 ones are _____.



1 ten and 7 ones are _____.

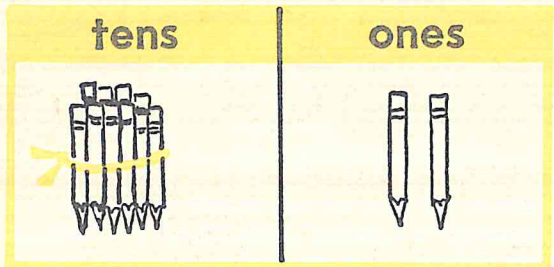


1 ten and 8 ones are _____.

Check your answers with page 31.

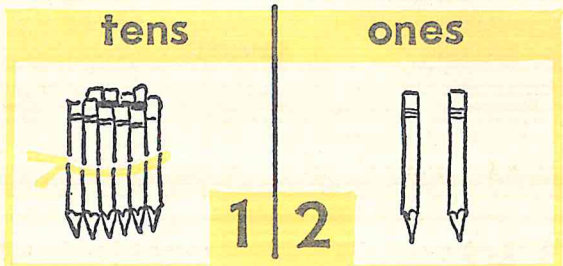
You can show tens and ones

like this:

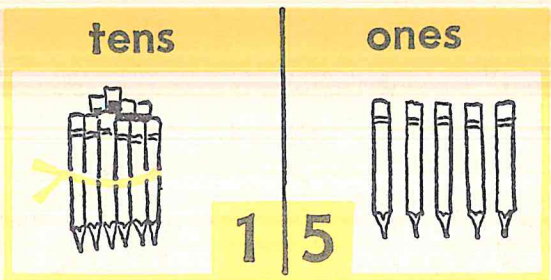


1 ten and 2 ones

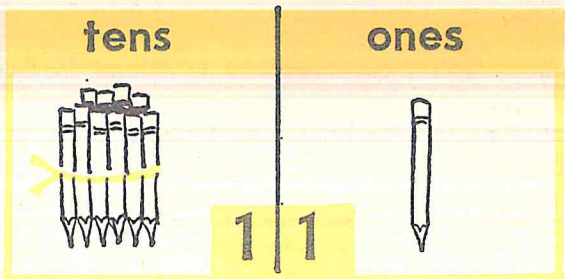
or like this:



1 ten 2 ones

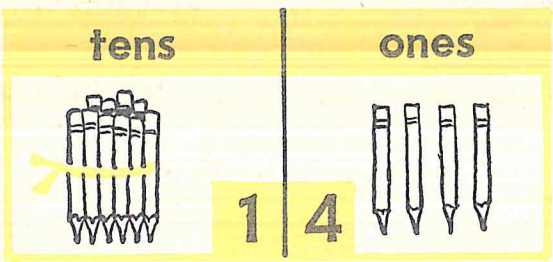


1 ten 5 ones



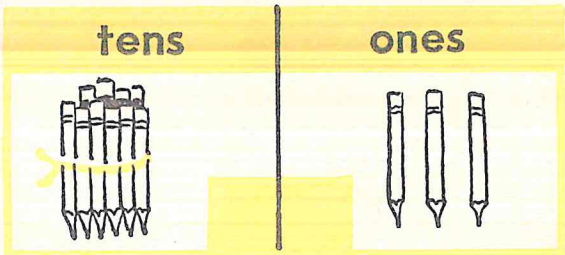
1 ten 1 one

Write the number in the boxes.
Write the number word on the line.

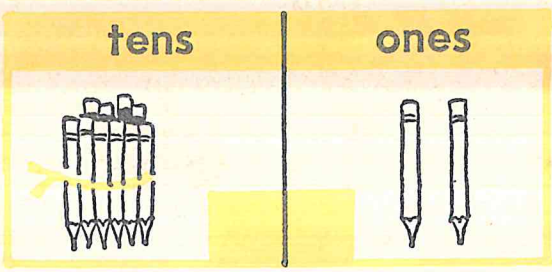


fourteen

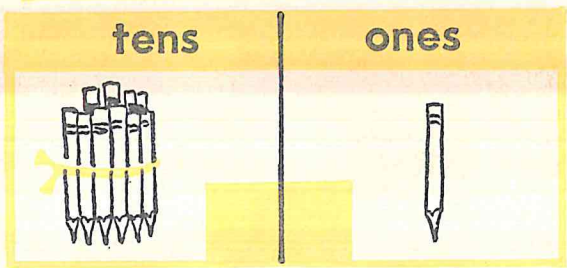
A.



B.



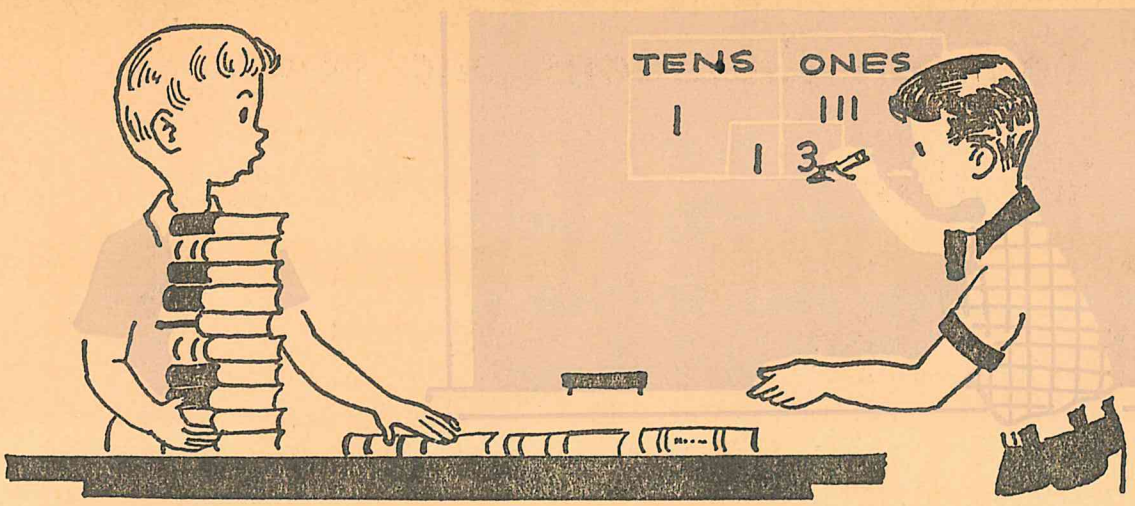
C.



Check your answers with page 32.

Answers for page 28:

1. 1 and 8
2. 1 and 6
3. 1 and 4
4. 1 and 7
5. 1 and 5
6. 1 and 1
7. 1 and 3
8. 1 and 2
9. 1 and 6
10. 1 and 9
11. 1 and 5



Jack has 13 " " s. 1 ten and 3 ones are 13.
Dick counts the 13 books.
See how he shows 1 ten and 3 ones.
Can you show tens and ones like Dick does?

tens	ones
1	II
1	2

twelve

tens	ones
1	IIIII
1	5

fifteen

tens	ones
1	IIIIIII
1	7

seventeen

A.

tens	ones

B.

tens	ones

C.

tens	ones

sixteen

eighteen

fourteen

D.

tens	ones
1	3

E.

tens	ones
1	1

F.

tens	ones
1	6

G.

tens	ones
1	8

H.

tens	ones
1	2

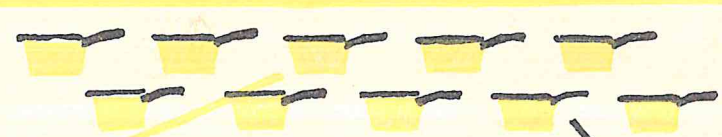
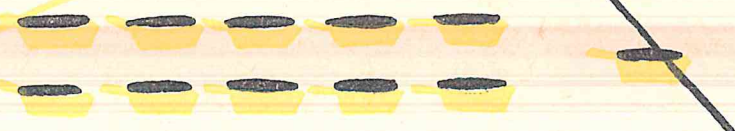
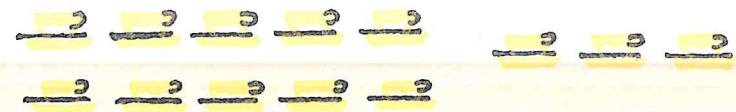
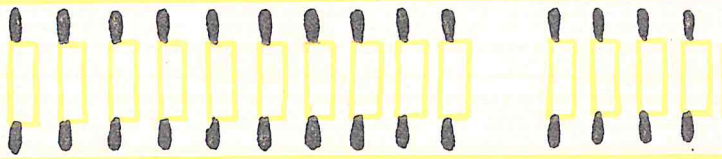
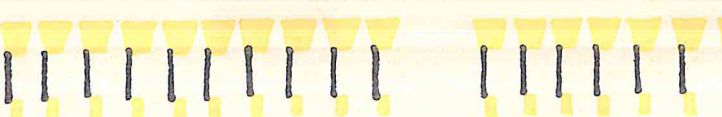
I.

tens	ones
1	5

Check your answers with page 33.

Answers for page 29: A. 15 B. 16 C. 17 D. 18

Count how many are in each picture.
Draw an orange line to the number word on the left that tells how many.
Draw a black line to the number on the right that tells how many.

sixteen		11
ten		14
seventeen		10
twelve		17
eighteen		16
eleven		18
fifteen		12
fourteen		13
thirteen		15

Check your answers with page 34.

Answers for page 30:

A. 13, thirteen B. 12, twelve C. 11, eleven

Bill has 15 marbles. ●●●●●●●●●●○○○○○

He writes ||||||||||
|||||

There is 1 ten.
There are 5 ones.

John has 6 marbles. ●●●●●● He writes ||||||

There are 6 ones. There are no tens.

Dick has 4 marbles. ●●●● He writes ||||

There are 4 ones. There are no tens.

Bill writes:

tens	ones
1	5

John writes:

tens	ones
	6

Dick writes:

tens	ones
	4

Answers for page 31:

A.

tens	ones
1	6

B.

tens	ones
1	8

C.

tens	ones
1	4

D.

tens	ones
1	3

E.

tens	ones
1	1

F.

tens	ones
1	6

G.

tens	ones
1	8

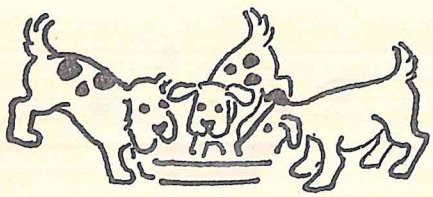
H.

tens	ones
1	2

I.

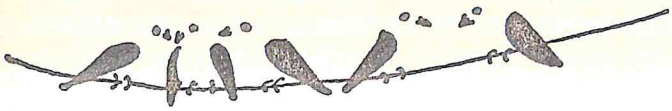
tens	ones
1	5

Show the tens and ones.
Write the tens and ones.
Write the number word on the line.

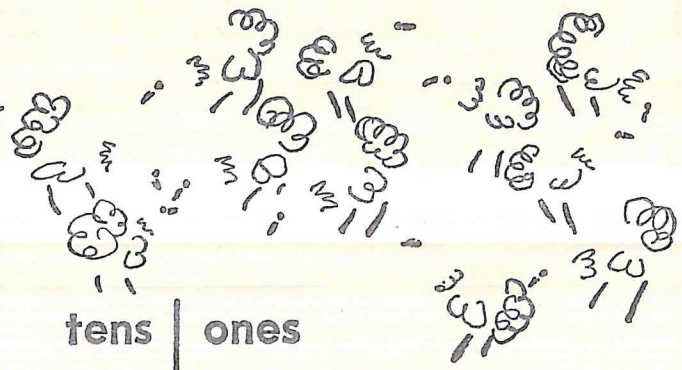


tens	ones
3	3

tens	ones



tens	ones



tens	ones

tens	ones

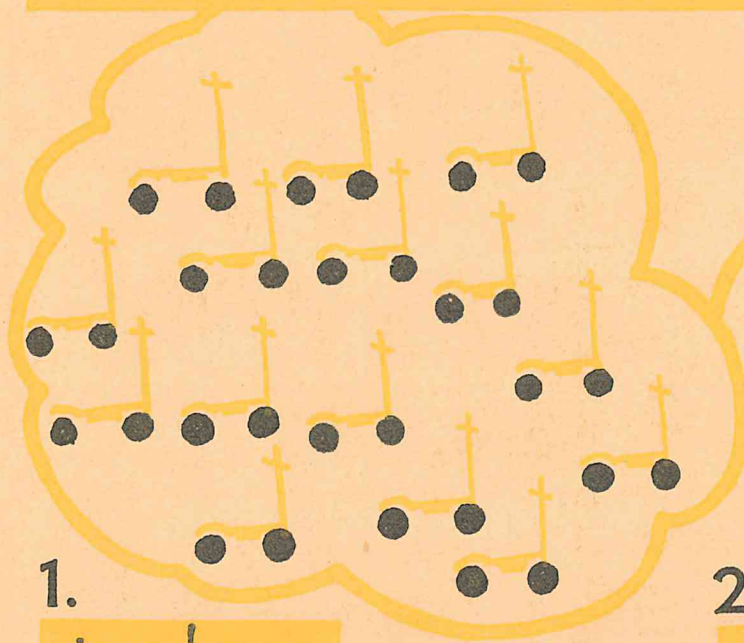
tens	ones

Check your answers with page 36.

Answers for page 32:

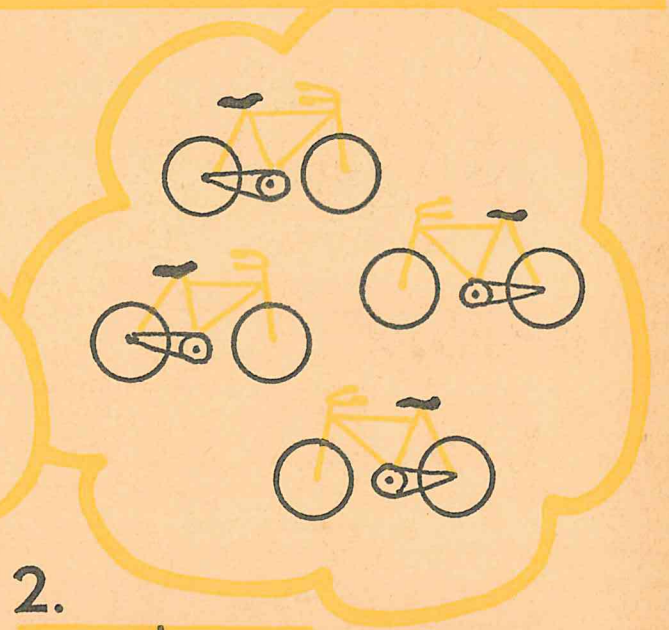
ten	s, 10	thirteen	s, 13	sixteen	s, 16
eleven	s, 11	fourteen	s, 14	seventeen	s, 17
twelve	s, 12	fifteen	s, 15	eighteen	s, 18

Show the tens and ones.
Write the tens and ones.
Write the number word on the line.



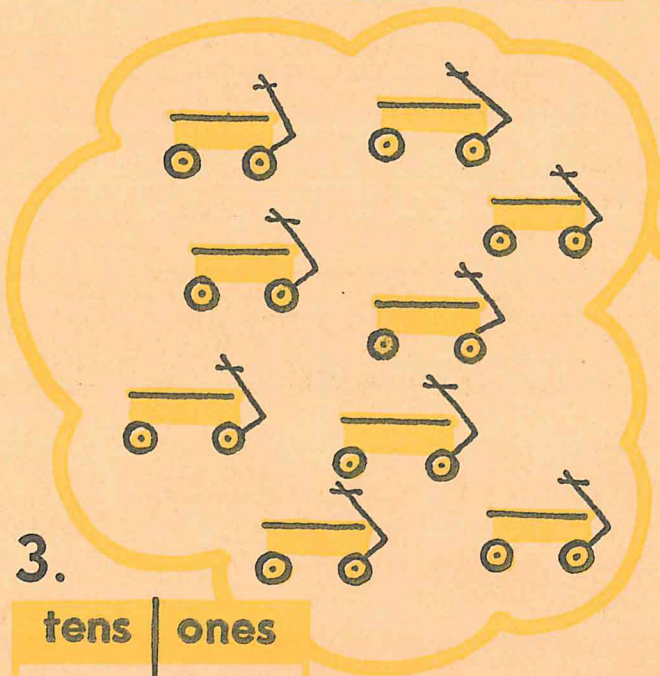
1.

tens	ones



2.

tens	ones



3.

tens	ones

4.

tens	ones

Check your answers with page 37.

IIIIIIIIII I Here are 11 ones.
IIIIIIIIII I 1 ten and 1 one are 11.
IIIIIIIII Here are 9 ones.
There are no tens.
IIIIIIIIII Here are 10 ones.
IIIIIIIIII 10 ones are 1 ten and no ones.

tens	ones
1	1

We show 1 ten and 1 one.

tens	ones
	9

We show no ten and 9 ones.

How do you show 10 ones?

How do you show 1 ten and no ones?

Are 10 ones the same as 1 ten and no ones?

Let us see.

IIIIIIIIII Here are 10 ones.

IIIIIIIIII Here is 1 ten and no ones.

Count and see if they are the same.

When we write 9 we mean no tens and 9 ones.

When we write 11 we mean 1 ten and 1 one.

See if you can show 1 ten and no ones.

Look on the next page to see the answer.

Answers for page 34:

tens	ones
I	III
1	3

thirteen

tens	ones
	IIIII
	5

five

tens	ones
I	I
1	1

eleven

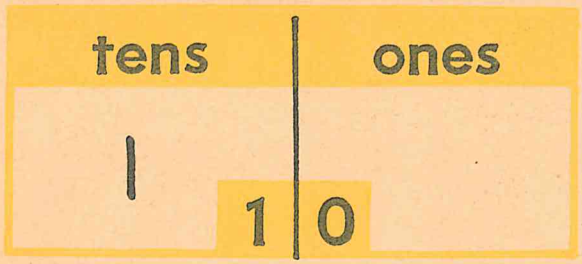
tens	ones
I	II
1	2

twelve

tens	ones
	IIII
	4

four

This is how to show 1 ten and no ones.



1 ten

no ones

Were you right?

When there is nothing to put in the box we write 0. We call 0 zero. Say zero.

Write the number word zero.

zero

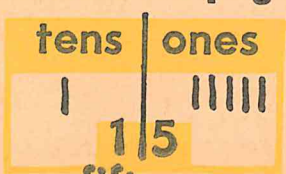
Write the number 0.

0

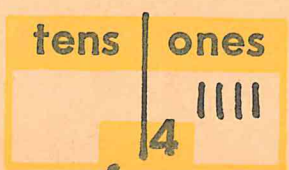
Write the number 10.

10

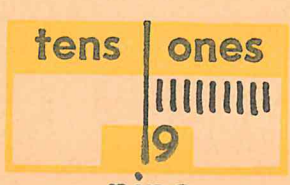
Answers for page 35:



fifteen



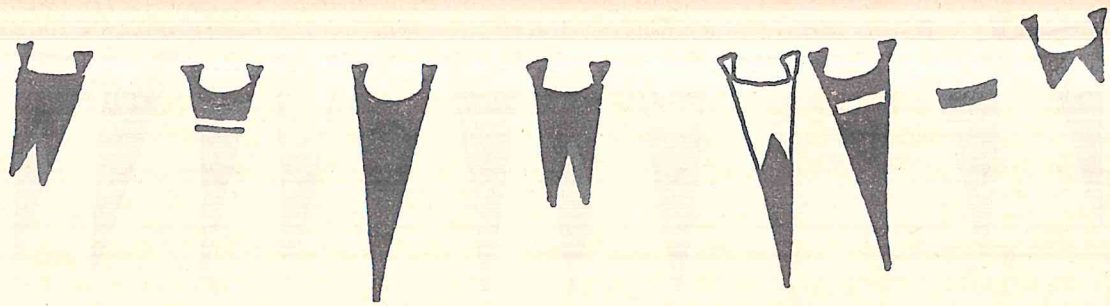
four



nine

eleven

●●●●●●●●●●● There are ____ ● s.



____ ten and ____ ones are ____.

Show the tens and ones. Write the number.

●●●●●●●●

tens	ones

●●●●●●●●●●●

tens	ones

●●●●●●●●●●

tens	ones

●●●

tens	ones

Write the number word.

9 _____ 17 _____ 6 _____

10 _____ 15 _____ 2 _____

Check your answers with page 40.

Write the number.

A.

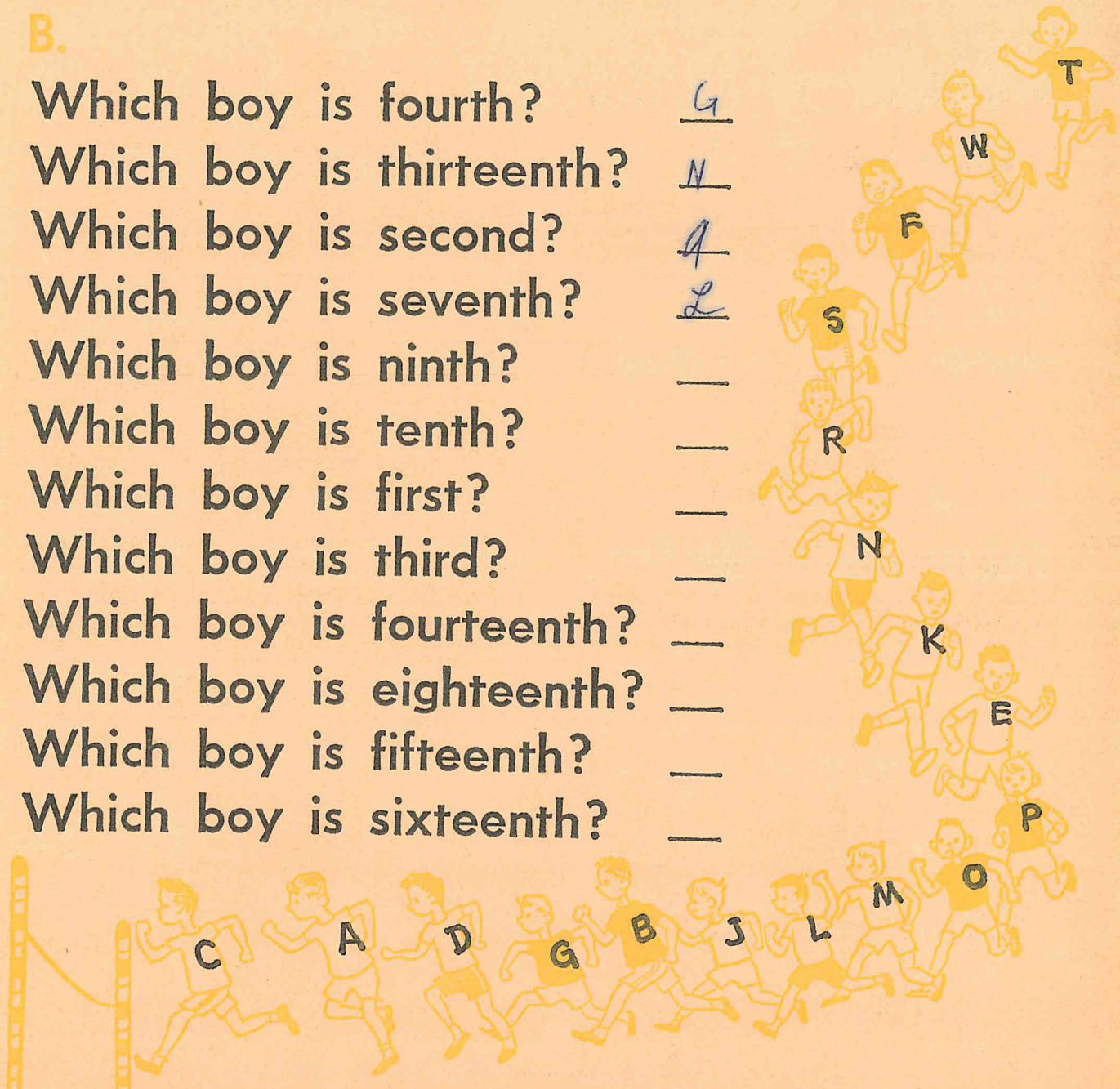
one	1	three	____	seven	____
eight	____	eleven	____	twelve	____
thirteen	____	fourteen	____	sixteen	____

Look at the picture.

The first boy is C. The last boy is T.

B.

Which boy is fourth? G
Which boy is thirteenth? M
Which boy is second? A
Which boy is seventh? L
Which boy is ninth? ___
Which boy is tenth? ___
Which boy is first? ___
Which boy is third? ___
Which boy is fourteenth? ___
Which boy is eighteenth? ___
Which boy is fifteenth? ___
Which boy is sixteenth? ___



Check your answers with page 41.

There is 1  and 1  .

$$\begin{array}{r} 1 \\ +\,1 \end{array}$$


There is 1  .

There are 2  s.

$$\begin{array}{cc} 1 & 2 \\ \underline{+2} & \underline{+1} \end{array}$$

There is 1 .

There are 3  s.

$$\begin{array}{cc} 1 & 3 \\ \underline{+3} & \underline{+1} \end{array}$$

Check your answers with page 42.

Answers for page 38:

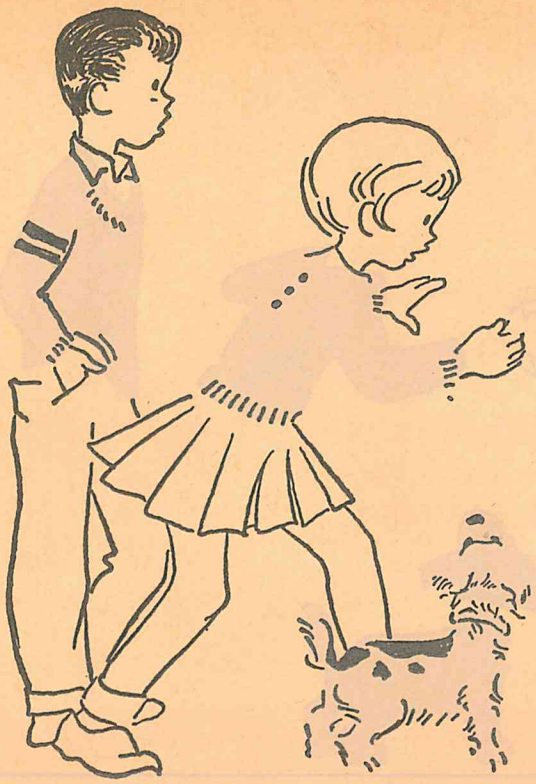
1. 11
2. 1, 3, 13
5. nine, seventeen, six ten, fifteen, two

3.

tens	ones	tens	ones
8	IIIIIIII	1	1 I

4.

tens	ones	tens	ones
1 1	0		3 III



9 6 3

2 4 5

1 8 7

How many?

1

1 4

$$\begin{array}{r} 1 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +1 \\ \hline \end{array}$$

1

1 5

$$\begin{array}{r} 1 \\ +5 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ +1 \\ \hline \end{array}$$

9

Who won?

Check your answers with page 43.

Answers for page 39:

A. 1, 3, 7; 8, 11, 12; 13, 14, 16

B. G, N, A, L, O, P, C, D, R, T, S, F

How many?

 and  are 

$$\begin{array}{r} 1 \\ +6 \end{array} \qquad \begin{array}{r} 6 \\ +1 \end{array}$$

 and are

$$\begin{array}{r} 1 \\ +7 \end{array} \qquad \begin{array}{r} 7 \\ +1 \end{array}$$

 and  are 

$$\begin{array}{r} 1 \\ +8 \end{array} \qquad \begin{array}{r} 8 \\ +1 \end{array}$$

Write how many in all.

A.

$$\begin{array}{r} 2 \\ +3 \end{array} \qquad \begin{array}{r} 3 \\ +2 \end{array} \qquad \begin{array}{r} 2 \\ +4 \end{array} \qquad \begin{array}{r} 4 \\ +2 \end{array} \qquad \begin{array}{r} 2 \\ +5 \end{array} \qquad \begin{array}{r} 5 \\ +2 \end{array}$$

B.

$$\begin{array}{r} 2 \\ +6 \end{array} \qquad \begin{array}{r} 6 \\ +2 \end{array} \qquad \begin{array}{r} 2 \\ +7 \end{array} \qquad \begin{array}{r} 7 \\ +2 \end{array} \qquad \begin{array}{r} 3 \\ +4 \end{array} \qquad \begin{array}{r} 4 \\ +3 \end{array}$$

C.

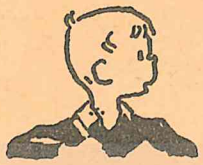
$$\begin{array}{r} 3 \\ +5 \end{array} \qquad \begin{array}{r} 5 \\ +3 \end{array} \qquad \begin{array}{r} 3 \\ +6 \end{array} \qquad \begin{array}{r} 6 \\ +3 \end{array} \qquad \begin{array}{r} 4 \\ +5 \end{array} \qquad \begin{array}{r} 5 \\ +4 \end{array}$$

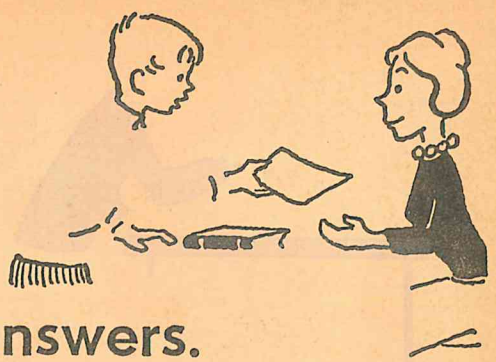
D.

$$\begin{array}{r} 1 \\ +1 \end{array} \qquad \begin{array}{r} 2 \\ +2 \end{array} \qquad \begin{array}{r} 3 \\ +3 \end{array} \qquad \begin{array}{r} 4 \\ +4 \end{array}$$

Check your answers with page 44.

Answers for page 40: 2  | 3, 3 | 4, 4



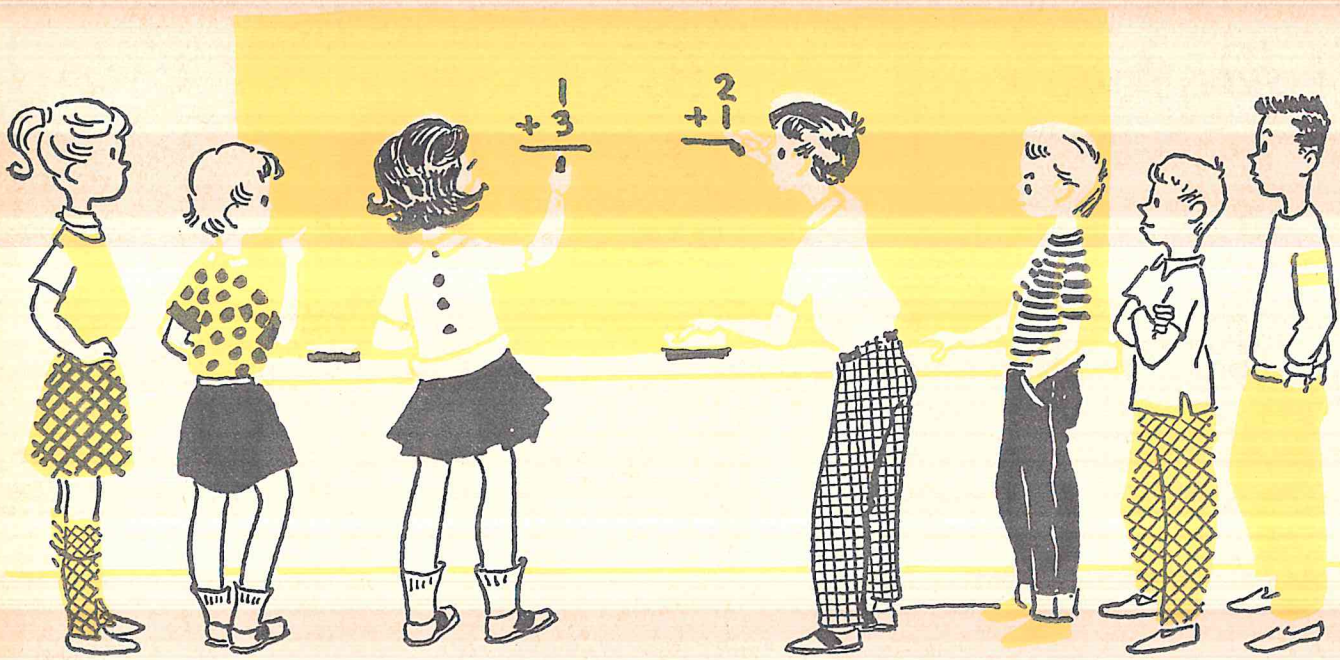


The boys and girls write answers.
Tom wrote his answers first.
Can you write your answers to show how many in all?

A.	2 +7	4 +4	2 +1	4 +1	2 +6	3 +3
	1 +2	2 +4	1 +3	2 +2	3 +1	1 +7
C.	5 +1	5 +4	1 +4	6 +1	6 +3	3 +2
	3 +4	8 +1	7 +1	1 +5	5 +2	5 +3
E.	1 +6	4 +2	2 +3	6 +2	1 +8	1 +1
	2 +5	7 +2	4 +3	3 +4	4 +5	3 +6

Check your answers with page 45.

Answers for page 41: 5, 5; 6, 6; the dog won



The boys and girls write answers to show how many in all.

	Write answers for the girls.			Write answers for the boys.		
A.	1	2	2	5	6	1
	+2	+2	+1	+2	+1	+7
B.	3	4	4	2	3	5
	+4	+4	+3	+6	+5	+3
C.	4	3	7	6	7	1
	+5	+6	+2	+2	+1	+8
D.	4	1	3	2	3	4
	+2	+5	+3	+7	+6	+5

Check your answers with page 46.

Answers for page 42: 7, 7, 8, 8, 9, 9

A. 5, 5, 6, 6, 7, 7 B. 8, 8, 9, 9, 7, 7

C. 8, 8, 9, 9, 9, 9 D. 2, 4, 6, 8

Take Away

$$\begin{array}{r} 2 \\ -1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 3 \\ -2 \\ \hline 1 \end{array} \qquad \begin{array}{r} 3 \\ -1 \\ \hline 2 \end{array}$$

$$\begin{array}{rr} 4 & 4 \\ -3 & -1 \\ \hline \end{array} \qquad \begin{array}{rr} 5 & 5 \\ -4 & -1 \\ \hline \end{array} \qquad \begin{array}{rr} 6 & 6 \\ -5 & -1 \\ \hline \end{array}$$

$$\begin{array}{rr} 7 & 7 \\ -6 & -1 \\ \hline \end{array} \qquad \begin{array}{rr} 8 & 8 \\ -7 & -1 \\ \hline \end{array} \qquad \begin{array}{rr} 9 & 9 \\ -8 & -1 \\ \hline \end{array}$$

Check your answers with page 47.

Answers for page 43:

A. 9, 8, 3, 5, 8, 6 B. 3, 6, 4, 4, 4, 8 C. 6, 9, 5, 7, 9, 5

D. 7, 9, 8, 6, 7, 8 E. 7, 6, 5, 8, 9, 2 F. 7, 9, 7, 7, 9, 9

Take Away And How Many

A.

3	1	1	4	5	1
−2	+2	+3	−3	−4	+4
1	3	4	1		
3	2	3	4	5	4
−1	+1	+1	−1	−1	+1

B.

1	6	7	1	1	8
+5	−5	−6	+6	+7	−7
5	6	7	6	7	8
+1	−1	−1	+1	+1	−1

C.

9	1	1
−8	+8	+1
9	8	2
−1	+1	−1

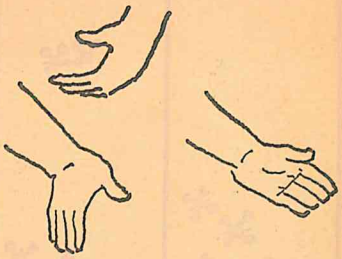
Answers for page 44:

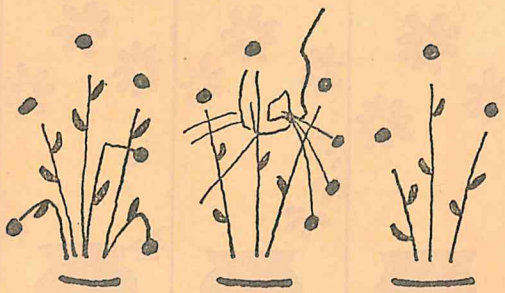
A.	3, 4, 3	7, 7, 8
B.	7, 8, 7	8, 8, 8
C.	9, 9, 9	8, 8, 9
D.	6, 6, 6	9, 9, 9

Check your answers with page 48.

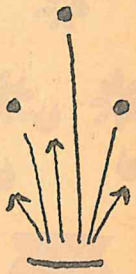
Take away and write your answers.

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +2 \\ \hline \end{array}$$





$$\begin{array}{r} 6 \\ -3 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +3 \\ \hline \end{array}$$



$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +4 \\ \hline \end{array}$$

A.	$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -2 \\ \hline \end{array}$
B.	$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -3 \\ \hline \end{array}$
C.	$\begin{array}{r} 8 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$

Check your answers with page 49.

Answers for page 45: A. 1, 3 1, 4 1, 5 B. 1, 6 1, 7 1, 8

Take Away — How many in all?

The boys and girls can take away and find how many in all. Can you? Write the answers.

A.	2	5		6	2		2	7	
	+3	−3		−4	+4		+5	−5	
	3	5		6	4		5	7	
	+2	−2		−2	−2		+2	−2	
B.	8	8		2	9		7	3	
	−6	−2		+7	−7		−4	+4	
	2	6		7	9		7	4	
	+6	+2		+2	−2		−3	+3	
C.	3	8		9	3		4	9	
	+5	−5		−6	+6		+5	−5	
	5	8		9	6		5	9	
	+3	−3		−3	+3		+4	−4	

Check your answers with page 50.

Answers for page 46:

A.	1, 3	4, 1	1, 5	B.	6, 1	1, 7	8, 1	C.	1, 9	2
	2, 3	4, 3	4, 5		6, 5	6, 7	8, 7		8, 9	1

Here are your number facts. Write the answers.

A.	1	1	1	1	1	1	1	1	2
	+1	+2	+3	+4	+5	+6	+7	+8	−1
B.	2	2	2	2	2	2	2	3	3
	+1	+2	+3	+4	+5	+6	+7	−1	−2
C.	3	3	3	3	3	3	4	4	4
	+1	+2	+3	+4	+5	+6	−1	−2	−3
D.	4	4	4	4	4	5	5	5	5
	+1	+2	+3	+4	+5	−1	−2	−3	−4
E.	5	5	5	5	6	6	6	6	6
	+1	+2	+3	+4	−1	−2	−3	−4	−5
F.	6	6	6	7	7	7	7	7	7
	+1	+2	+3	−1	−2	−3	−4	−5	−6
G.	7	7	8	8	8	8	8	8	8
	+1	+2	−1	−2	−3	−4	−5	−6	−7
H.	8	9	9	9	9	9	9	9	9
	+1	−1	−2	−3	−4	−5	−6	−7	−8

Check your answers with page 51.

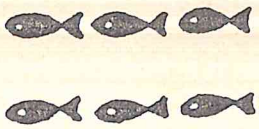
Answers for page 47:

				2, 4	3, 6	4, 8		
A. 2, 3	2, 4	2, 5	B. 2, 6	2, 7	3, 4	C. 3, 5	3, 6	4, 5

Let's Learn About Numbers.

$$\begin{array}{r} 1 \\ -1 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 2 \\ -2 \\ \hline 0 \end{array}$$



Answers for page 48:

A. 5, 2 2, 6 7, 2 B. 2, 6 9, 2 3, 7 C. 8, 3 3, 9 9, 4
5, 3 4, 2 7, 5 8, 8 9, 7 4, 7 8, 5 6, 9 9, 5

A.

There were 4 birds in a tree. A cat ran up the tree. If 4 birds flew away, how many birds were left in the tree? ____

4
−4

B. Tom had 5 cars.
John had 5 cars.
Tom has how many more cars than John? ____

5
−5

C.

Jane had 6 dolls.
She had 6 doll beds.
How many more beds did Jane need for her dolls? ____

6
−6

A number subtracted from itself leaves zero.

D.

1	2	3	4	5	6	7	8	9
−1	−2	−3	−4	−5	−6	−7	−8	−9

Check your answers with page 53.

Answers for page 49:

A. 2, 3, 4, 5, 6, 7, 8, 9, 1

B. 3, 4, 5, 6, 7, 8, 9, 2, 1

C. 4, 5, 6, 7, 8, 9, 3, 2, 1

D. 5, 6, 7, 8, 9, 4, 3, 2, 1

E. 6, 7, 8, 9, 5, 4, 3, 2, 1

F. 7, 8, 9, 6, 5, 4, 3, 2, 1

G. 8, 9, 7, 6, 5, 4, 3, 2, 1

H. 9, 8, 7, 6, 5, 4, 3, 2, 1

Tom had nine fish.
Mother had one fish.
How many fish did Tom and his mother have together? ____

9	1
+1	+9
10	10

Tom and Mother had 10 fish.
Mother ate her fish.
How many fish were left? ____

10	10
−1	−9
9	1

9	2
+2	+9
11	11

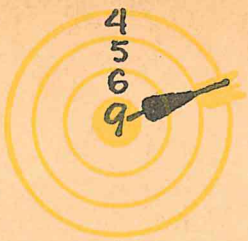
Tom had nine fish.
Father had two fish.
How many fish did Tom and his father have together? ____

11	11
−2	−9
9	2

Tom and Father had 11 fish.
They gave 2 fish away.
How many fish were left? ____

9	2	11	11	9	3	12	12
+2	+9	−2	−9	+3	+9	−3	−9

Check your answers with page 54.

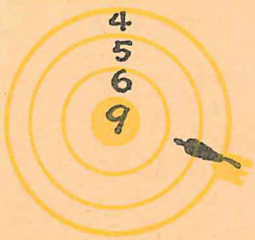


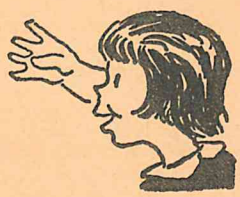
Bill has 9 points.
Mother has 4 points.
How many points do Bill and his mother have together? ____

$$\begin{array}{rr} 9 & 4 \\ +4 & +9 \\ \hline 13 & 13 \end{array}$$

If Father has 13 points, how many more points than Bill does Father have? ____

$$\begin{array}{rr} 13 & 13 \\ -9 & -4 \\ \hline 4 & 9 \end{array}$$





Jane has 5 points.
Bill has 9 points.
How many points do Bill and Jane have together? ____

5+9=14 9+5=14

If Mother gets 14 points, how many fewer points than Mother does Bill have?

$$\begin{array}{rr} 14 & 14 \\ -9 & -5 \\ \hline 5 & 9 \end{array}$$

A.

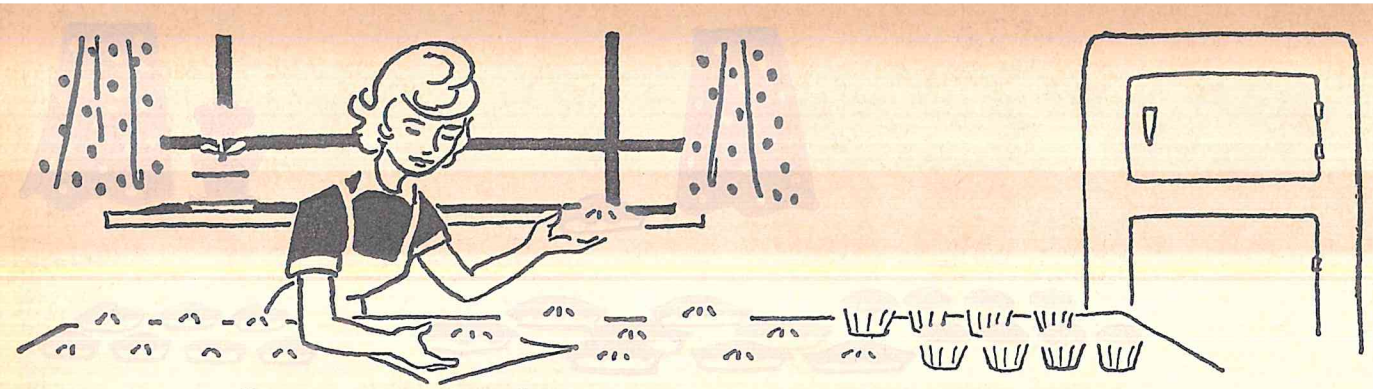
$$\begin{array}{rrrrrrrr} 4 & 9 & 13 & 13 & 5 & 9 & 14 & 14 \\ +9 & +4 & -9 & -4 & +9 & +5 & -9 & -5 \end{array}$$

B. 6+9=___ 9+6=___ 15−9=___ 15−6=___

Check your answers with page 55.

Answers for page 51:

A. O B. O C. O D. O, O, O, O, O, O, O, O, O



Mother has 7 little pies.
She has 9 big pies.
How many pies in all does Mother have? ____

7	9
+9	+7
16	16

Mother has 16 pies.
She puts the big pies in the freezer. How many pies are left on the table? ____

16	16
−9	−7
7	9

Mother has 8 cakes.
She puts them all in the freezer. How many cakes and big pies does Mother have in the freezer? ____

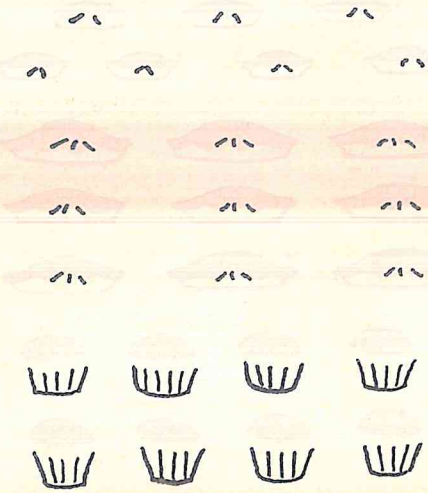
8	9
+9	+8
17	17

A

7	9	16	16	
+9	+7	−9	−7	

B

8	9	17	17	9
+9	+8	−9	−8	+9

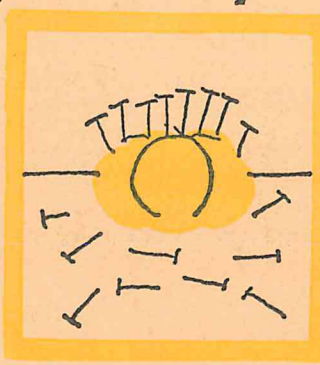


Check your answers with page 56.

Answers for page 52: 11, 11, 9, 2, 12, 12, 9, 3

Ann is helping Mother.
She puts away the pins.
There are 18 pins.
Ann has put away 9 pins. 18 – 9 = ___
How many pins are left to put away? ____

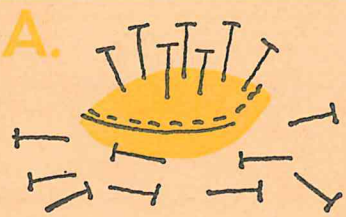
Mother has 17 pins.
She puts away 8 pins.
How many more pins must Mother put away? ____



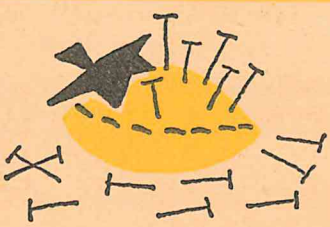
$$\begin{array}{r} 17 \\ -8 \\ \hline 9 \end{array}$$

Some pins are put away.
How many pins are left to put away?

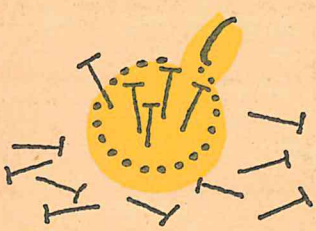
A.



$$\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$$

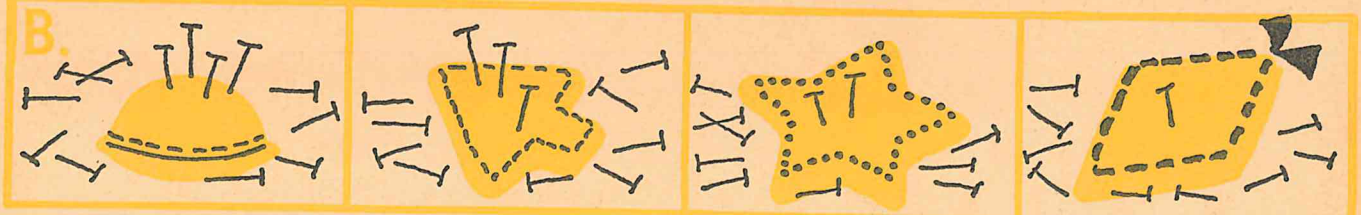


$$\begin{array}{r} 15 \\ -6 \\ \hline \end{array}$$



$$\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$$

B.



13 – 4 = ___ 12 – 3 = ___ 11 – 2 = ___ 10 – 1 = ___

Check your answers with page 57.

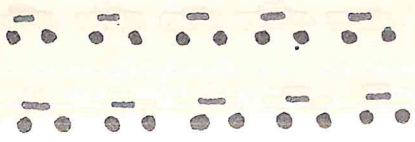
Answers for page 53:

A. 13, 13, 4, 9, 14, 14, 5, 9 B. 15, 15, 6, 9

Here are 2 cars and 8 cars.
How many cars in all? ____

$$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array} \qquad \begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$$

There are 10 cars in all.



Here are ten cars. Eight cars are put away.
How many cars are left?

$$\begin{array}{rl} 10 & \text{Cars in all.} \\ -8 & \text{Cars put away.} \\ \hline 2 & \text{Cars left.} \end{array}$$

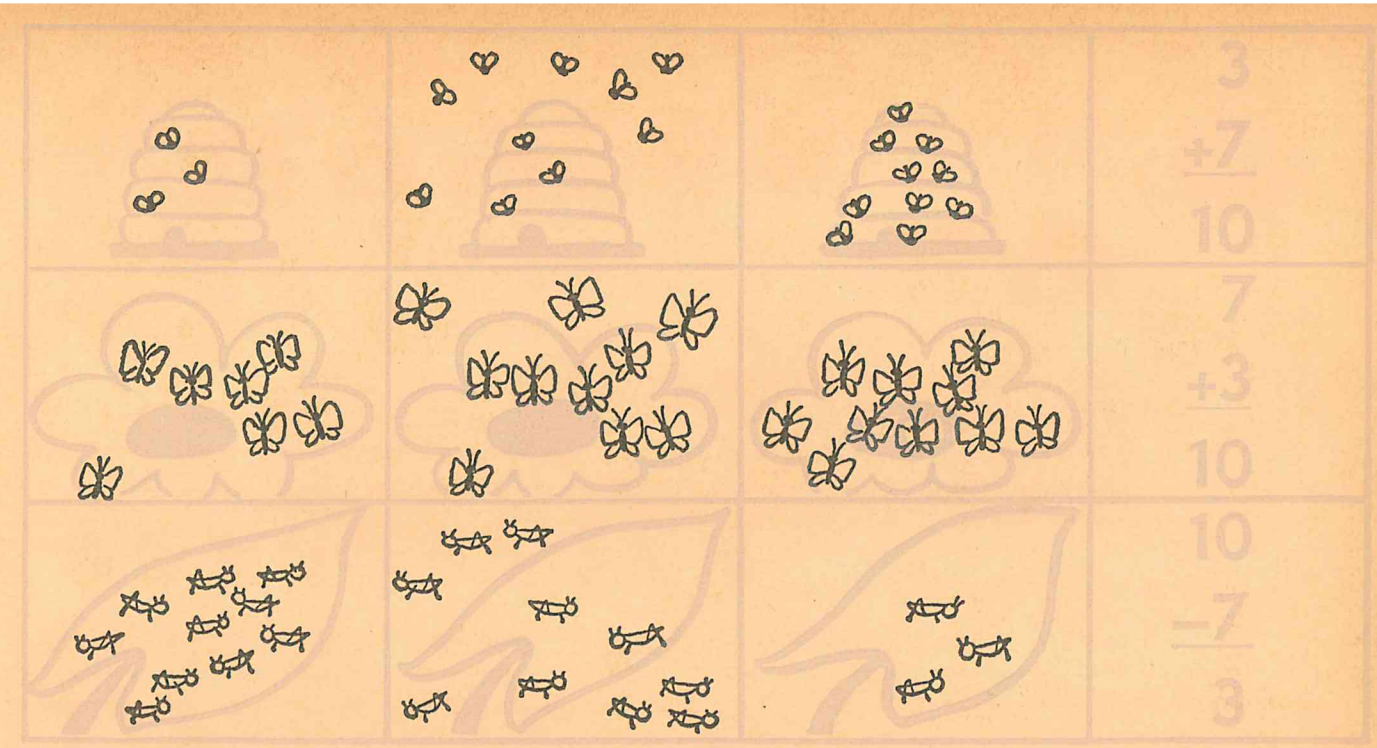
$$\begin{array}{r} 10 \\ -8 \\ \hline 2 \end{array} \qquad \begin{array}{r} 10 \\ -2 \\ \hline 8 \end{array}$$

There are 2 cars parked.
How many more cars can be put here? Count and see.

$$\begin{array}{r} 2 \\ +8 \end{array} \qquad \begin{array}{r} 8 \\ +2 \end{array} \qquad \begin{array}{r} 10 \\ -8 \end{array} \qquad \begin{array}{r} 10 \\ -2 \end{array}$$

Check your answers with page 58.

Answers for page 54: A. 16, 16, 7, 9 B. 17, 17, 8, 9, 18



A.

3	7	10	10
+7	+3	−7	−3

B.

6	4
+4	+6

C.

10	10
−6	−4

D.

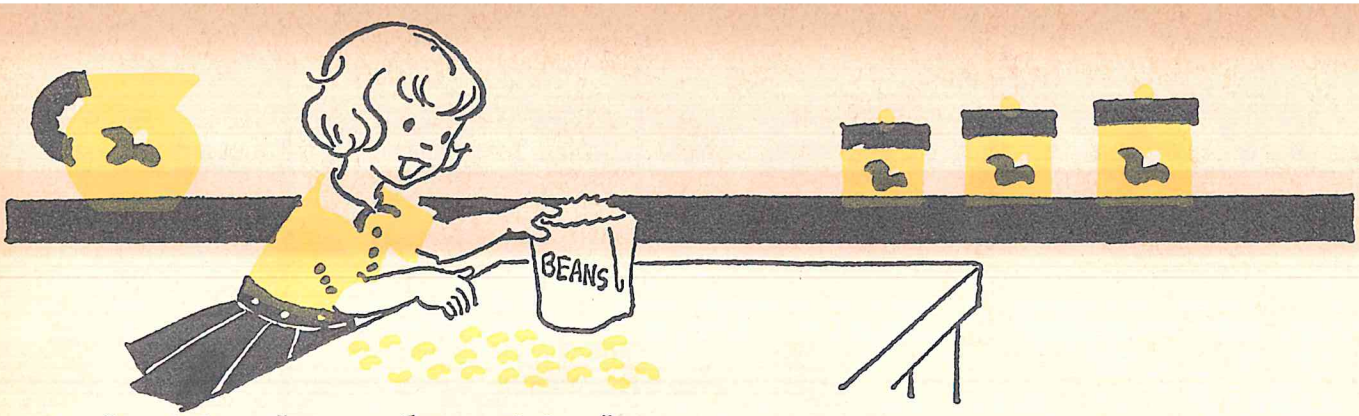
5
+5

E.

6	4	10	10	5	10
+4	+6	−6	−4	+5	−5

Check your answers with page 59.

Answers for page 55: A. 9, 9, 9 B. 9, 9, 9, 9



Ask Mother for 10 beans.

Put them like this:

like this:

like this:

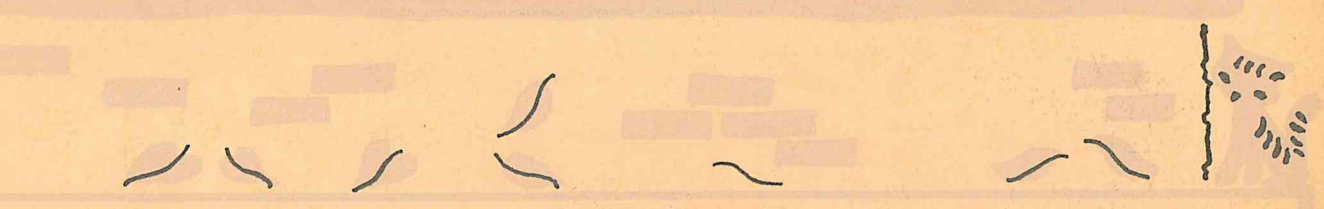
Do you have 10 beans each time?

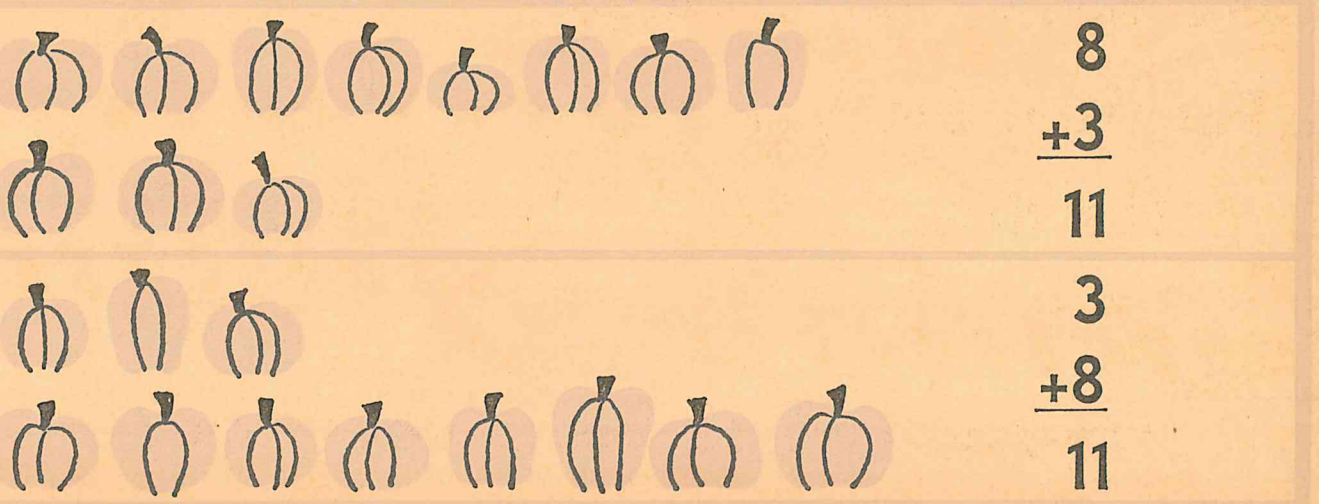
Write the number of beans in each row.
Add to see how many beans in each box.

A. 2 +8 10	B. +__	C. +__
D. +__	E. +__	F. +__
G. +__	H. +__	I. +__

Check your answers with page 60.

Answers for page 56: 10, 10, 2, 8





$$\begin{array}{r} 8 \\ +3 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 3 \\ +8 \\ \hline 11 \end{array}$$

11 − 3 = 8

Look at the three numbers:

We can add:

$$\begin{array}{r} 3 \\ +8 \\ \hline 11 \end{array} \qquad \begin{array}{r} 8 \\ +3 \\ \hline 11 \end{array}$$

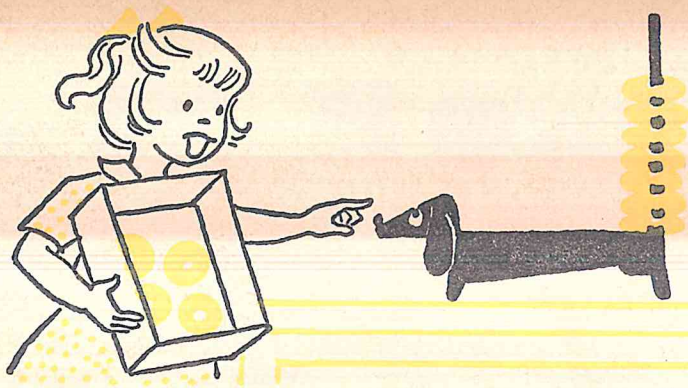
These are addition facts for 3, 8, and 11.

We can subtract:

$$\begin{array}{r} 11 \\ -3 \\ \hline 8 \end{array} \qquad \begin{array}{r} 11 \\ -8 \\ \hline 3 \end{array}$$

These are subtraction facts for 3, 8, and 11.

Answers for page 57: A. 10, 10, 3, 7 B. 10, 10 C. 4, 6 D. 10 E. 10, 10, 4, 6, 10, 5



Look at Jane put s on the dog.

7	4	11	11
+4	+7	−7	−4
11	11	4	7

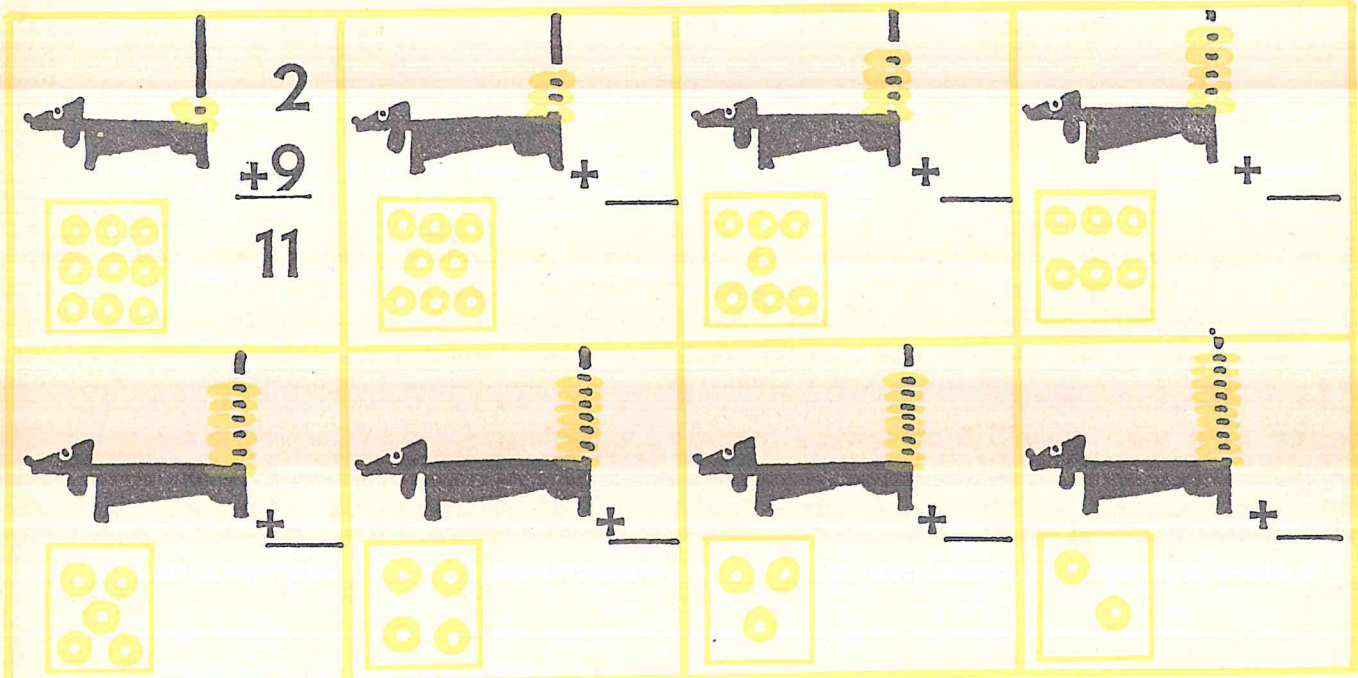
These are the facts for 4, 7, and 11.

Look at the pictures.

Write how many s are on the dog.

Write how many s are in the box.

Write a fact to show how many s in all.

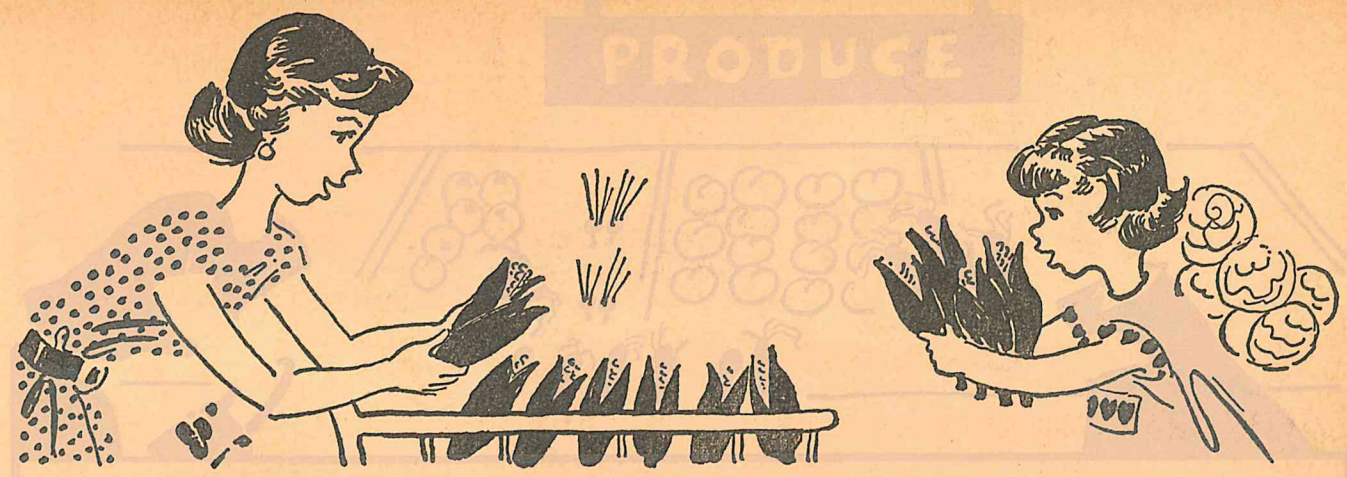


Now you know the addition facts for 11.

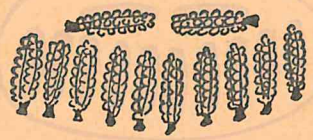
Check your answers with page 62.

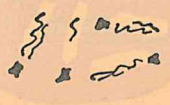
Answers for page 58:

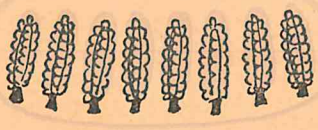
A. 10 B. 10 C. 10 D. 10 E. 10 F. 10 G. 10 H. 10 I. 10



8	4
+4	+8
12	12







12	12
−4	−8
8	4

Write the addition facts for 4, 8, 12.

B. Write the subtraction facts for 4, 8, 12.

Write four facts for the numbers 4, 7, 11.

Check your answers with page 63.

Mary has 5 eggs.
Jim has 7 eggs.
They have 12 eggs in all.

$$\begin{array}{rr} 5 & 7 \\ +7 & +5 \\ \hline 12 & 12 \end{array}$$

Mother had 12 eggs.
She put 7 eggs in a cake.
How many eggs were left?

$$\begin{array}{rr} 12 & 12 \\ -7 & -5 \\ \hline 5 & 7 \end{array}$$

A.

$$\begin{array}{rrrr} 7 & 5 & 12 & 12 \\ +5 & +7 & -7 & -5 \\ \hline \end{array}$$

Mary has 12 white eggs. OOOOOOOOOOOO
She colors 6 eggs.
How many white eggs are left? 12−6=6

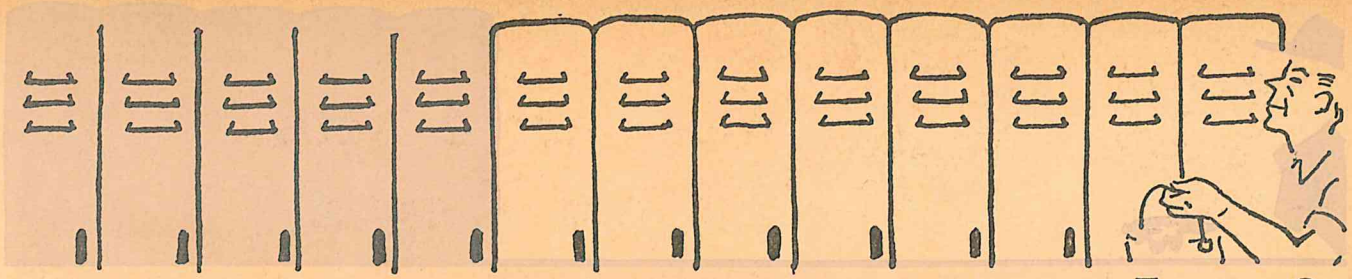
John had 6 white eggs. OOOOOO
He colors 6 eggs.
How many white eggs are left? 6−6=0

B.

$$\begin{array}{rrrrrrr} 3 & 4 & 5 & 6 & 7 & 8 & 9 \\ +9 & +8 & +7 & +6 & +5 & +4 & +3 \\ \hline \end{array}$$

Check your answers with page 64.

Answers for page 60: All the answers are 11.



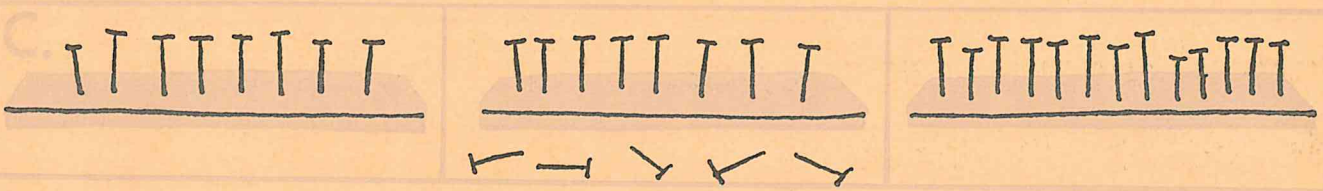
There are 5 brown lockers.
There are 8 white lockers.
There are how many lockers in all?
There are 13 lockers in all.
Eight lockers are white.
How many lockers are brown?

5	8
+8	+5
13	13
13	13
−8	−5
5	8

A.

5	8	13	13
+8	+5	−8	−5

There are 13 flowers.
Ann takes 5. There are ____ left.



There are 8 nails.
Tom adds 5. There are ____ nails.

Check your answers with page 65.

Answers for page 61:

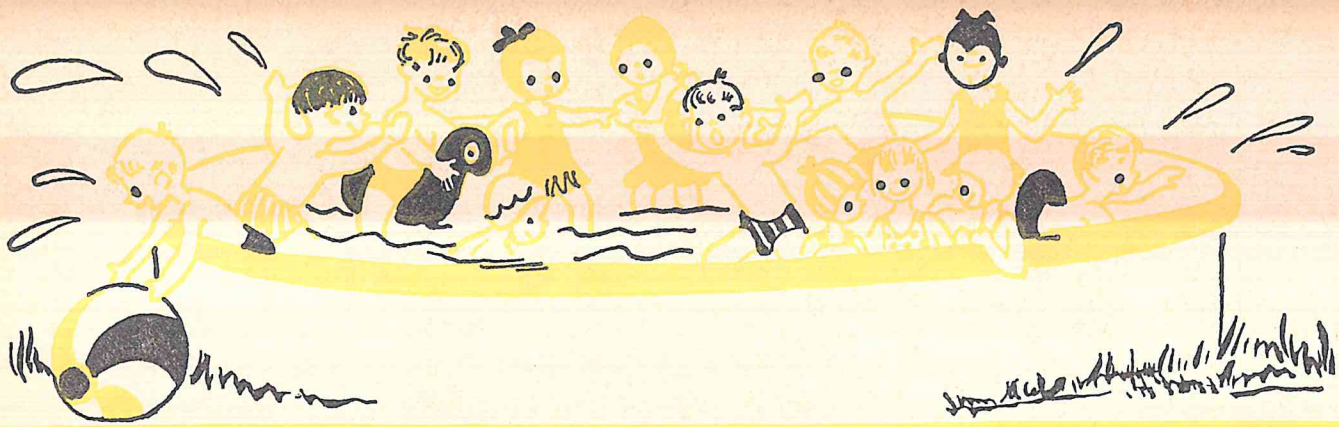
A.

4	8	12	12
+8	+4	−8	−4
12	12	4	8

B.

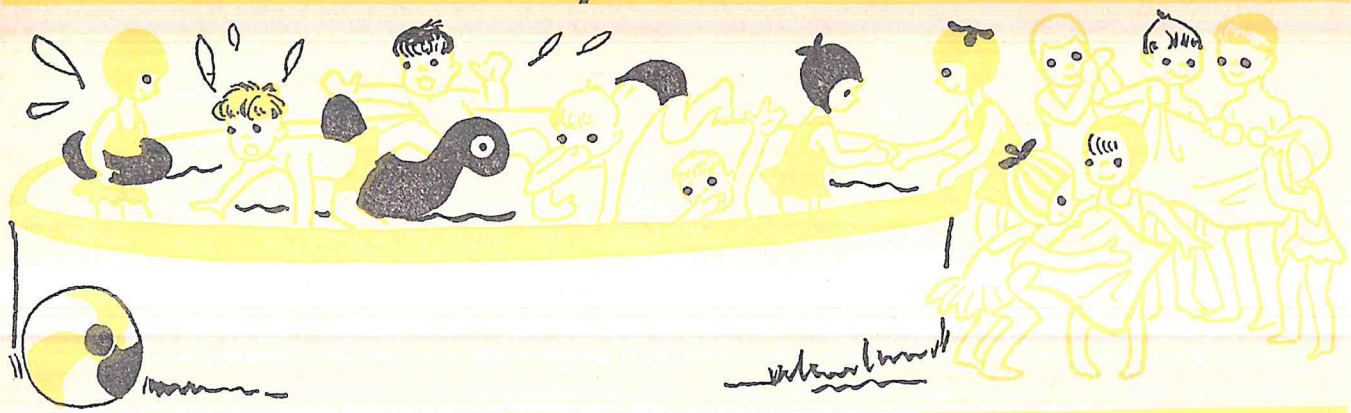
4	7	11	11
+7	+4	−7	−4
11	11	4	7

C.



There are 6 boys.
There are 7 girls.
There are how many children?

6	7
+7	+6
13	13



There were 13 children.
Seven children go away.
How many are left?

13	13
−7	−6
6	7

4	5	6	7
+9	+8	+7	+6

8	9	13	13	13	13	13	13
+5	+4	−9	−8	−7	−6	−5	−4

Check your answers with page 66.

Answers for page 62:

A. 12, 12, 5, 7 B. 12, 12, 12, 12, 12, 12, 12

Bill has 6  s and 8  s.

6 and 8 are ____.

6	8
+8	+6
14	14

Bill had 14 ·· s. He sold 8 ·· s.

How many rabbits did Bill have left?

14 ·· s	14 ·· s
−8 ·· s	−6 ·· s
6 ·· s	8 ·· s

Bill has 7  s and 7  s.

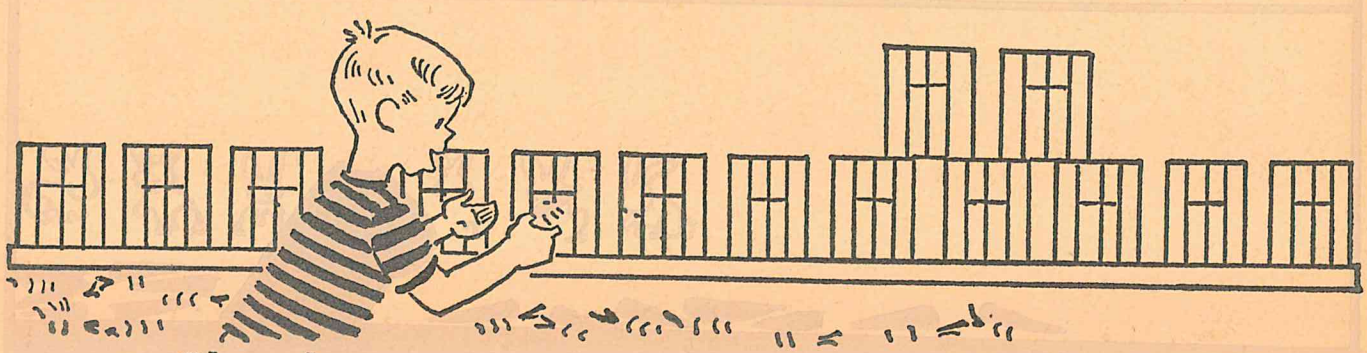
7 and 7 are ____

7	14
+7	−7
14	7

Add or subtract and write the answer.

6	8	14	14	7	14
+8	+6	−8	−6	+7	−7

6	7	8	7	7	8	14	14	14
+8	+8	+8	+6	+7	+7	−6	−7	−8



Check your answers with page 67.

Answers for page 63: A. 13, 13, 5, 8 B. 8 C. 13

How many in all?

1. 5 ○○○○○ and 9 ○○○○○○○○○ are ____ ○ s.
2. 6 ○○○○○○ and 8 ○○○○○○○○ are ____ ○ s.
3. 7 ★★★★★★★ and 7 ★★★★★★★ are ____ ★ s.
4. 7 ★★★★★★★ and 9 ★★★★★★★★★ are ____ ★ s.

5.

5	6	7	8	9
+9	+8	+7	+6	+5

6.

1 ★	2 ★s	3 ★s	4 ★s	5 ★s
+1 ★	+2 ★s	+3 ★s	+4 ★s	+5 ★s

7.

6 ♥s	7 ♥s	8 ♥s	9 ♥s
+6 ♥s	+7 ♥s	+8 ♥s	+9 ♥s

Show how many in all or how many are left.

8.

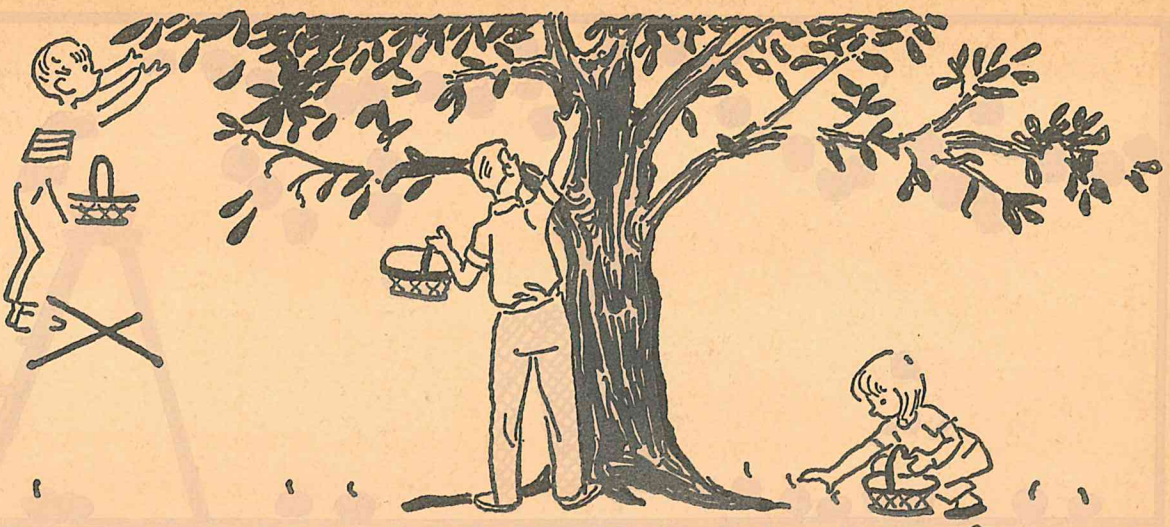
5	4	6	14	14	14
+9	+9	+9	−5	−6	−7

Check your answers with page 68.

Answers for page 64:

13 ◐ s 13 ☂ s 13  s 13  s

13, 13, 4, 5, 6, 7, 8, 9



7 and 8 are 15.

Jane picked 7 baskets.
Joe picked 8 baskets.

How many baskets in all did they pick? ____.

Father counted 8 baskets.
Father counted 7 baskets.

8 and 7 are 15.

How many baskets in all did Father count? ____

Joe sold 6 baskets.
Jane sold 9 baskets.

How many baskets in all did they sell? ____

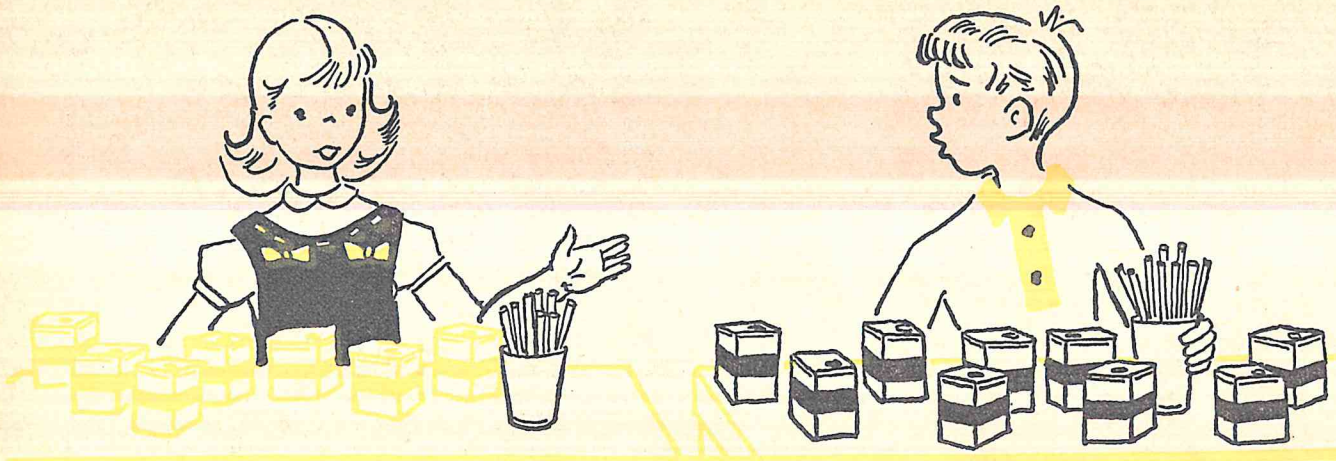
6 baskets	9 baskets	15 baskets	15 baskets
+9 baskets	+6 baskets	−9 baskets	−6 baskets

Check your answers with page 69.

Answers for page 65:

A. 14, 14, 6, 8, 14, 7

B. 14, 15, 16, 13, 14, 15, 8, 7, 6



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

7 and 9 are 16

							16		16
							−9		−7
							7		9
A.	8		16		8		9	17	17
	+8		−8		+9		+8	−9	−8

B.	7	9	16	16	8	9	17	17	18
	+9	+7	−9	−7	+9	+8	−9	−8	−9

C.	9	9	9	18	17	16	7	7	7
	+9	+7	+8	−9	−9	−9	+7	+8	+9

Check your answers with page 70.

Answers for page 66: 1. 14 2. 14 3. 14 4. 16
5. 14, 14, 14, 14, 14 6. 2, 4, 6, 8, 10
7. 12, 14, 16, 18 8. 14, 13, 15, 9, 8, 7

$$\begin{array}{r} 9 \\ +9 \\ \hline 18 \end{array}$$

1. 9 boys and 9 boys play ball.
   How many boys in all play ball? ____

SCOREBOARD

team	runs							
Visitors	0	0	2	0	0	8		
Home	0	0	0	3	0			

2. The visitors have 2 runs and 8 runs. How many runs in all do the visitors have? ____

3. If the home team has only 3 runs, how many more runs do they need to have the same number as the visitors? ____

4. The visitors have 6 ⚾ s.
   The home team has 5 ⚾ s.
   How many balls do the teams have in all? ____

5. If 2 balls are lost, how many are left? ____

6. The visitors have 7  s.
   The home team has 4  s.
   How many bats do the two teams have in all? ____

7. If 2 bats are lost, how many are left? ____

Check your answers with page 71.

Answers for page 67:

A. 15, 15, 15 B. 15, 15, 6, 9 C. 15, 15, 7, 8, 6, 9

John has six cars. 

Tom has five cars. 

How many cars in all do John and Tom have?

Do we add or do we subtract?

$$\begin{array}{r} 6 \\ +\,5 \\ \hline 11 \end{array} \qquad \begin{array}{r} 6 \\ -\,5 \\ \hline 1 \end{array}$$

We add to see how many in all they have.

Jane had 7 books. She gave 3 to Ann.

How many books did Jane have left?

A.

$$\begin{array}{r} 7 \\ +\,3 \\ \hline 10 \end{array} \qquad \begin{array}{r} 7 \\ -\,3 \\ \hline 4 \end{array}$$

Draw a circle around the one you do.

Do we subtract to see how many are left?

B. Jack had 5 s.

Mother gave Jack 3 more s.

How many s in all did Jack have?

$$\begin{array}{r} 5 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -\,3 \\ \hline \end{array}$$

Draw a circle around the one you do.

C. Mother made 7 s.

Mary made 3 s.

How many more s did Mother make than Mary made?

$$\begin{array}{r} 7 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,3 \\ \hline \end{array}$$

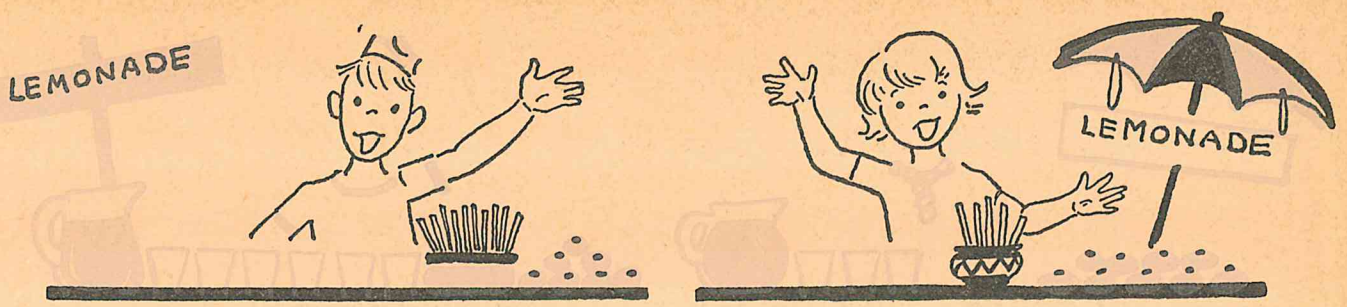
Check your answers with page 72.

Answers for page 68:

A. 16, 8, 17, 17, 8, 9

B. 16, 16, 7, 9, 17, 17, 8, 9, 9

C. 18, 16, 17, 9, 8, 7, 14, 15, 16



Do we add or subtract?

Draw a circle around which we do.

1. Joe sold 6 s. Ann sold 3 s.
   How many s did they sell in all?

2. How many more s did Joe sell than Ann?

3. How many fewer s did Ann sell than Joe?

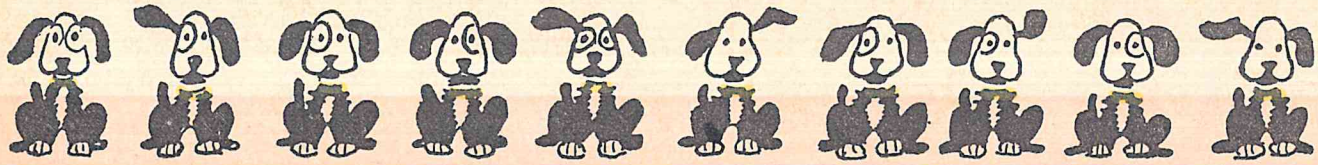
4. Joe had ten straws. Ann had five straws.
   How many more straws does Ann have to get to have as many as Joe?

5. How many fewer straws did Ann have than Joe?

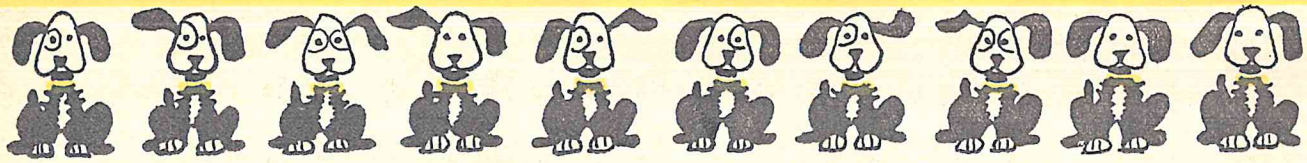
6. Ann sold 9 s. Joe sold 7 s.
   Who sold more cookies? _____
   How many more? ____

Check your answers with page 73.

Answers for page 69: 1. 18 2. 10 3. 7 4. 11 5. 9 6. 11 7. 9



Count the dogs. Do you count 10 dogs?



1 2 3 4 5 6 7 8 9 10

Count all the numbers.

There are how many dogs?

Count the colored numbers.

There are how many dogs?

First, count by ones. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

Second, you count by twos. 2, 4, 6, 8, 10.

Which way is faster to count to ten? By ones or twos? It is faster to count by twos.

1 2 3 4 5 6 7

Count the cats by ones. Count them by twos.

Are there 6 cats or 7 cats?

Seven is an odd number.

You cannot count to seven by twos.

2, 4, 6, are called even numbers.

1, 3, 5, 7, are called odd numbers.

Answers for page 70:

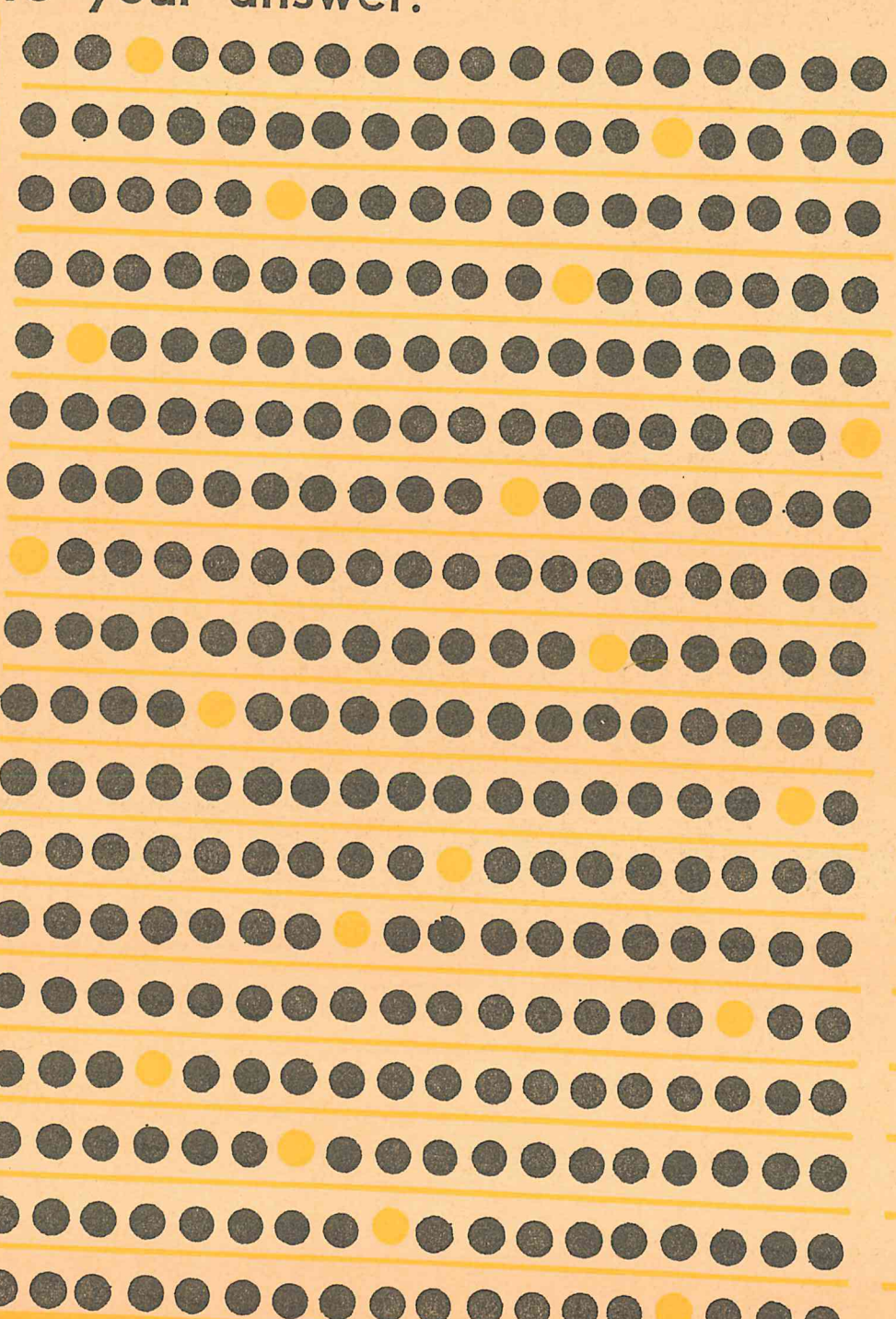
A. $7 - 3 = 4$

B. $5 + 3 = 8$

C. $7 - 3 = 4$

Odd or Even?

Count how many in a row.
Is the colored dot an odd or even number?
Write your answer.



odd
even

Check your answers with page 75.

Answers for page 71:

1. $\begin{array}{r} 6 \\ +3 \\ \hline 9 \end{array}$
2. $\begin{array}{r} 6 \\ -3 \\ \hline 3 \end{array}$
3. $\begin{array}{r} 6 \\ -3 \\ \hline 3 \end{array}$
4. $\begin{array}{r} 10 \\ -5 \\ \hline 5 \end{array}$
5. $\begin{array}{r} 10 \\ -5 \\ \hline 5 \end{array}$

6. Ann, 2 more

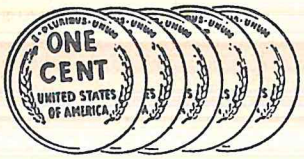
A penny is 1 cent.

A dime is 10 cents.

A nickel is 5 cents.

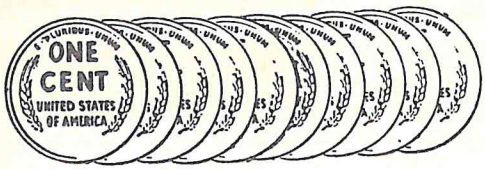
= 1¢

¢ = cent



= 5¢

= 5¢

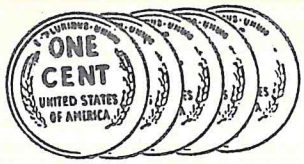


= 10¢

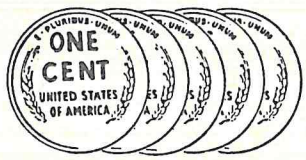
= 10¢

= 10¢

= 10¢



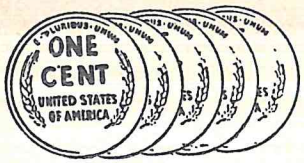
+



=

= 10¢

5¢ + 5¢ = 10¢



+

=

= 10¢

5¢ + 5¢ = 10¢

+

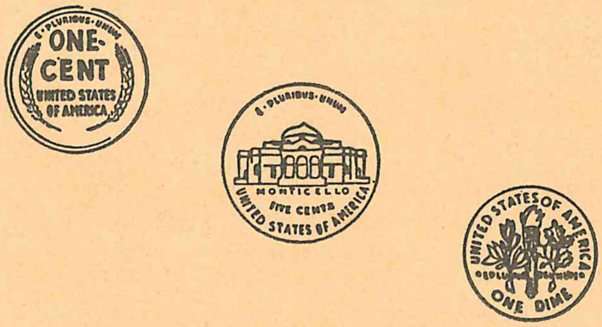
=

= 10¢

Is it a penny, a nickel, or a dime?
Draw a line to the box that tells what it is.

penny | 5 cents | 1¢ | nickel

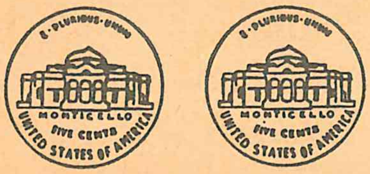
5¢

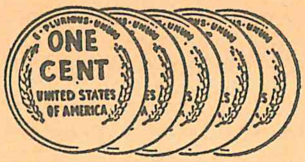


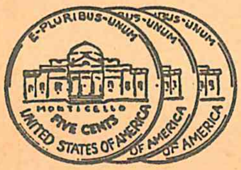
1 cent

dime | 10¢ | 10 cents

 = 6¢

 = 10¢  = 12¢

  = ____ cents

 = ____ ¢  = ____ ¢

Check your answers with page 77.

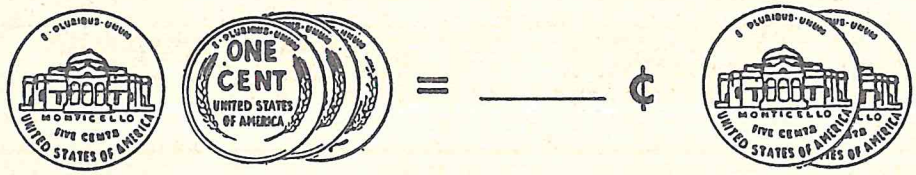
Answers for page 73:

1. odd 2. even 3. even 4. even 5. even 6. even
7. odd 8. odd 9. odd 10. odd 11. odd 12. even
13. even 14. even 15. even 16. odd 17. odd 18. odd

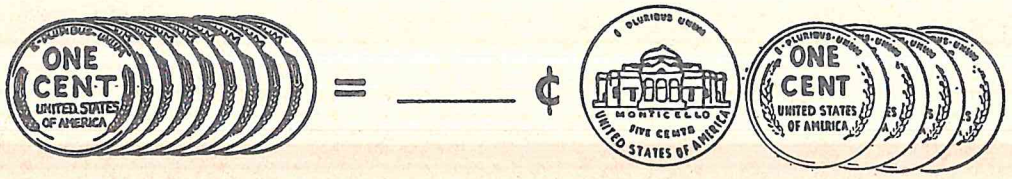
How much money in all?

A. 

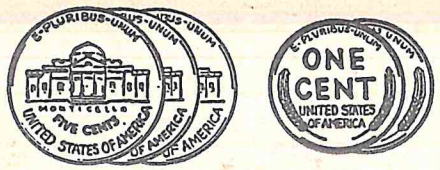
+ + = 17¢

B. 

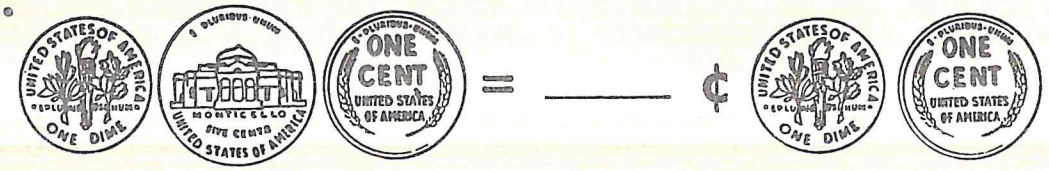
= ____ ¢ = ____ ¢

C. 

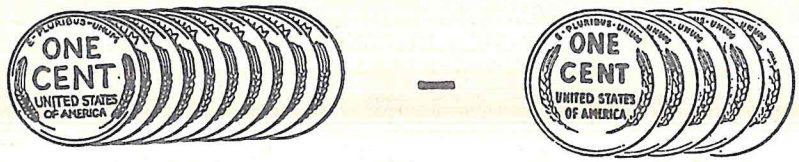
= ____ ¢ = ____ ¢

D. 

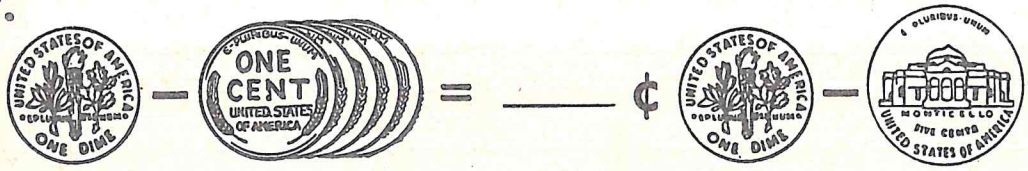
= ____ ¢ = ____ ¢

E. 

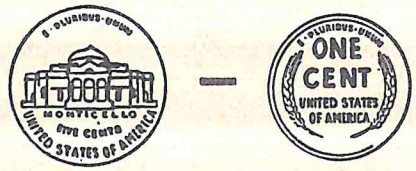
= ____ ¢ = ____ ¢



10¢ − 5¢ = 5¢

F. 

= ____ ¢ = ____ ¢

G. 

= ____ ¢

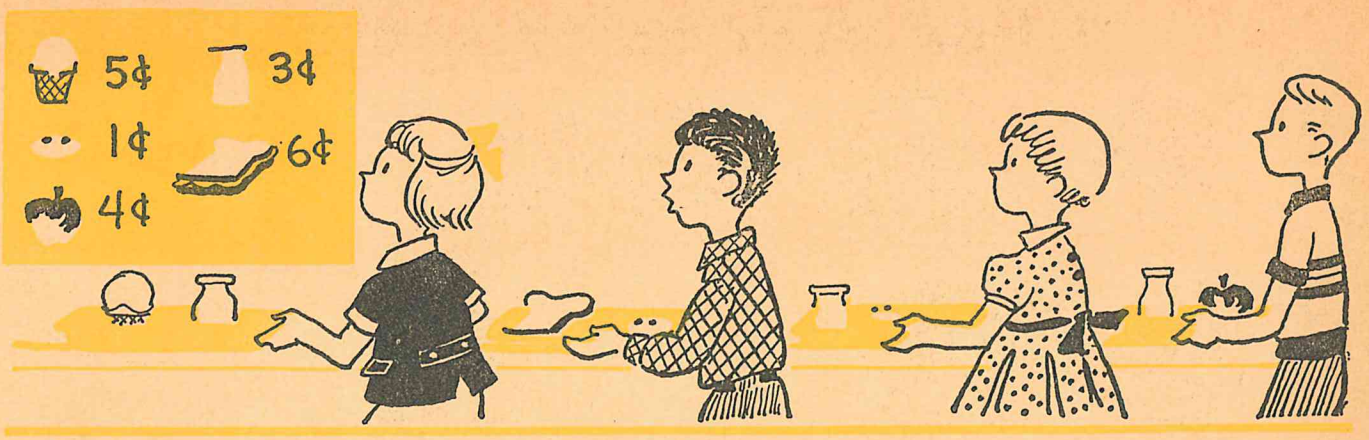
H. 

= ____ ¢

I. 

= ____ ¢

Check your answers with page 78.



The children went to eat.

John had a . It cost 6¢.

He had . It cost 3¢. 6¢ + 3¢ = 9¢

John gave the man 10¢. 10¢ − 9¢ = 1¢

John got back 1¢. The man gave John one penny for his change.

Look at the first box. It cost Mary 8¢ to eat.

She gave the man 10¢. 10¢ − 8¢ = 2¢

Mary got back 2¢ in change.

How much change did the others get?

Check your answers with page 79.

Mary	5¢	10¢
	+3¢	−8¢
	8¢	2¢
Joe	6¢	10¢
	+1¢	− ____
Jane		5¢
	+ ____	− ____
Tom		10¢
	+ ____	− ____

Answers for page 75:

penny	nickel	dime	15 cents
1 cent	5 cents	10 cents	15¢
1¢	5¢	10¢	15¢

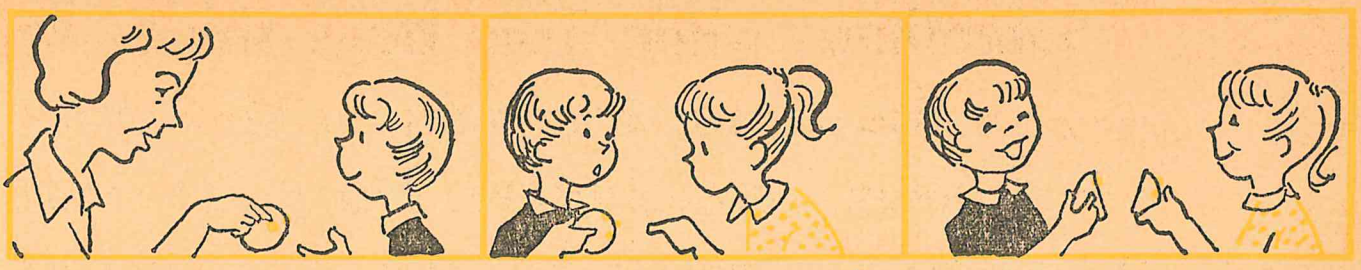
Sometimes when Tom buys things at the store, the man at the store gives Tom change. He gives Tom as few coins as he can. Tom keeps a chart to show what things he buys, how much they cost, and what coins he gets in change.

Look at Tom's chart. He took 15¢ to the store. His book cost 6¢. He got 9¢ in change. Could the storekeeper give Tom a dime? No. A dime is more than 9¢. He could give Tom a nickel. He could not give Tom 2 nickels. He gave Tom 1 nickel and 4 pennies. Can you finish Tom's chart? See what he bought, then do as the storekeeper does, give Tom back as few coins as you can.

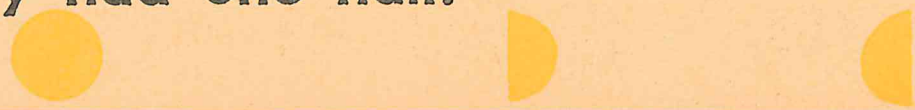
Tom took	He bought	He had left	Tom's change		
			dime	nickel	penny
15¢	6¢		A.		
10¢	5¢		B.		
9¢	5¢		C.		
15¢	5¢		D.		
5¢	2¢		E.		
15¢	8¢		F.		

Check your answers with page 80.

Answers for page 76: B. 8¢, 10¢ C. 9¢, 9¢ D. 17¢, 10¢ E. 16¢, 11¢ F. 5¢, 5¢ G. 4¢ H. 7¢ I. 3¢



Mother gave Jane one cookie. Mary came to play. "I will give you half of my cookie," said Jane. She cut the cookie into 2 equal pieces. Now, Jane had one half of the cookie and Mary had one half.



Jane's whole cookie Jane's half Mary's half

Is Jane's half as big as Mary's half?
Yes. Each half is the same size.

We can write:

one half

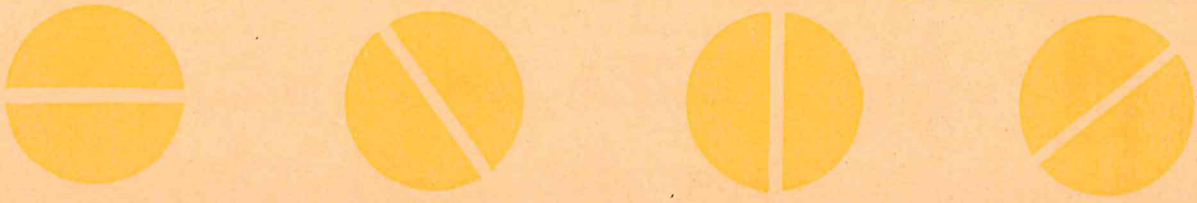
1 half

or ½

Look at the cupcake.

It has been cut in half.
Are there two pieces?
Is each half the same size?
Yes. There are two pieces.
Each half is the same size.

Look at the pies. Is each pie cut in half?



Yes. Each pie is cut in half.
Each half is the same size.

Answers for page 77: Joe, 3¢ – Jane, 1¢ – Tom, 3¢

This pie is cut into two pieces.
Each piece is the same size.
Each piece is half of the whole pie.

This pie is cut into two pieces.
Each piece is not the same size.
Is each piece one half of the pie?

Anything cut in half has only two pieces.
There are only 2 halves to any whole thing.
One half is the same size as the other half.
Are these pies cut in half?

yes no no no

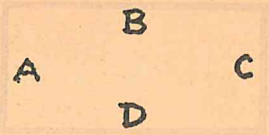
Check your answers with page 82.

Answers for page 78: A. 0, 1, 4 B. 0, 1, 0
C. 0, 0, 4 D. 1, 0, 0 E. 0, 0, 3 F. 0, 1, 2

A circle

A square

A rectangle



Look at the circle. A circle is round.

Look at the square. A square has four sides. Each side of a square is the same length. Sides A, B, C, and D of the square are the same length.

Look at the rectangle. A rectangle has four sides. Two sides are longer. Two sides are shorter. The four corners are square.

Are the two long sides the same length? Yes. The short sides are the same length, too.

Is this a rectangle?

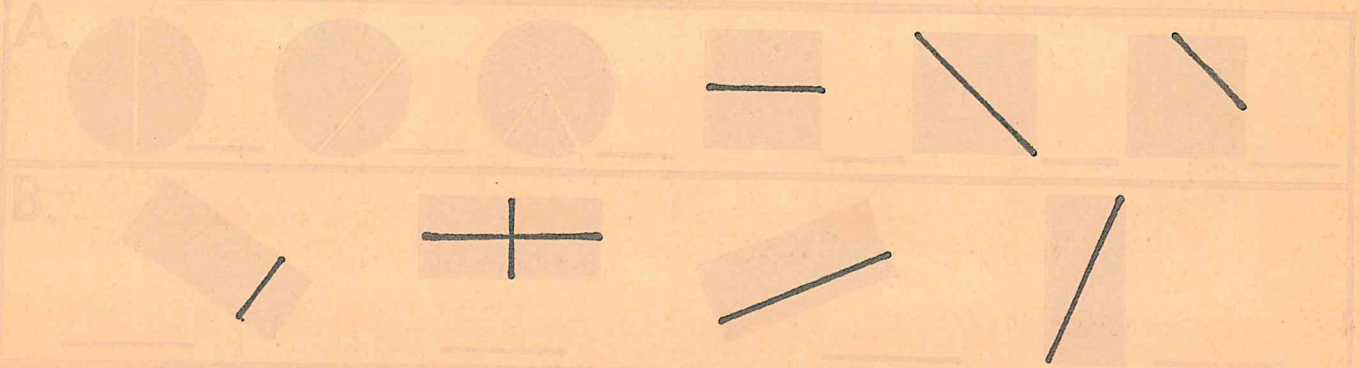
The corners are square.

The long sides are the same length.

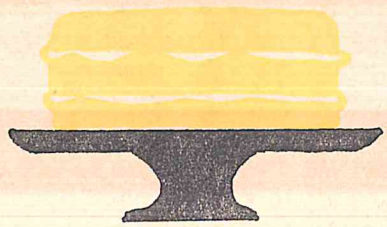
The shorter sides are the same length.

Yes, this is a rectangle.

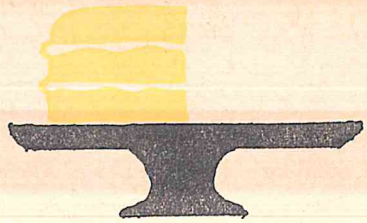
Look at the circles, squares, and rectangles. Is each one cut in half?



Check your answers with page 83.



A whole cake



Half a cake

Write:

one half

1 half

$\frac{1}{2}$

	Here is a whole.	Which is the half? A, B, or C? Draw a circle around the picture that shows ½.		
1.		A. 	B. 	C. 
2.		A. 	B. 	C. 
3.		A. 	B. 	C. 
4.		A.	B.	C.
5.		A. 	B. 	C. 
6.		A. 	B. 	C. 

Check your answers with page 84.

Answers for page 80: yes, yes, no, no

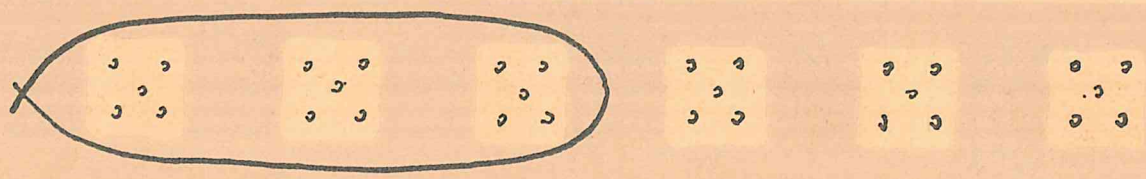
Bob had four crackers. Mother said, "Give Baby Tim half of your crackers." How many crackers did Bob give to Baby Tim?

Baby Tim got 2 crackers. Bob got 2 crackers.

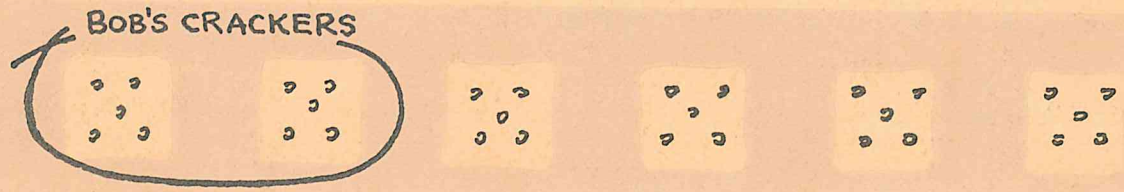
Each boy got the same number of crackers. They each got one half of the crackers.

Here is a group of 6 crackers.

Draw a circle around ½ of them for Bob.



If Bob gets 3 crackers, are 3 crackers left? Yes. Each half has the same number.

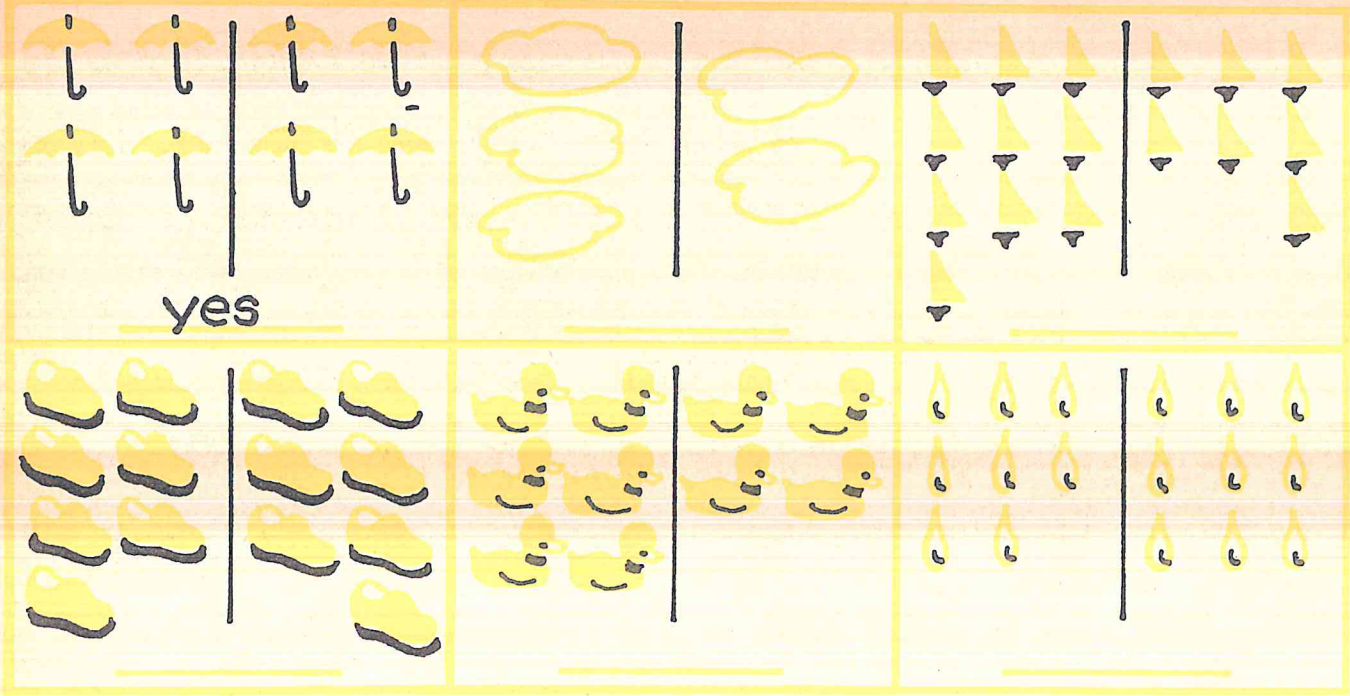


Now does Bob have half of the crackers? No.

Answers for page 81:

A. yes, no, no, yes, yes, no B. no, no, no, yes

Look at the pictures.
Is each group divided in half?



Color half of the dots.
Write how many dots are still white.

a. ●●●●○○○○ 4

b. ○○

c. ○○○○○○○○○○○○○○○○

d. ○○○○○○○○○○

e. ○○○○

f. ○○○○○○○○○○○○○○○○○○○○

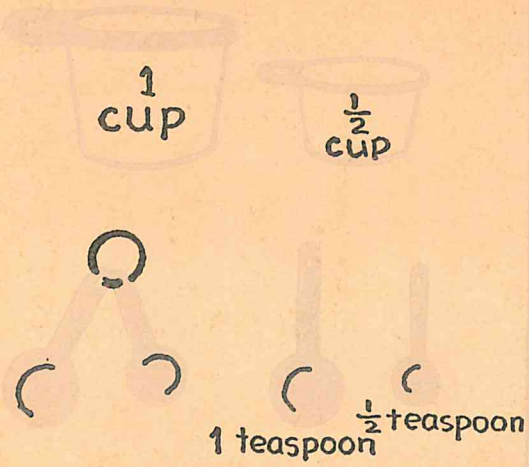
g. ○○○○○○○○○○○○

h. ○○○○○○

i. ○○○○○○○○○○○○○○

Check your answers with page 86.

Answers for page 82: 1. B 2. A 3. C 4. A 5. B 6. B



Ask Mother for the spoons and cups she uses to make a cake. They are called measuring spoons and cups. They are used to measure how much sugar, flour, and milk Mother uses in a cake.

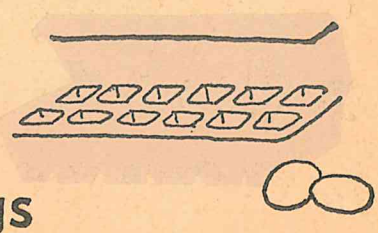
Take the cup that says ½ on it. Fill it with water. How many ½ cups will fill the whole cup? ____

Now, fill the ½ teaspoon. How many ½ teaspoons do you need to fill the whole teaspoon? ____

Does it always take two halves to make a whole? ____

Does your butter come in sticks? Are there four sticks in a new box? If the 4 sticks are one pound, how many sticks are in a half pound? ____

Ask Mother for an egg box. Count the spaces. Are there 12 spaces for eggs? If 12 eggs are called a dozen, how many eggs in a half dozen? ____ Count half the spaces.



Check your answers with page 87.

Telling Time

We have 12 numbers – 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12

a clock face

2 clock hands –

a long one

a short one

We put numbers on

The colored hand is long.
It is called the minute hand.
We put the minute hand on 12.

The black hand is shorter.
It is called the hour hand.
We put the hour hand on 1.

Now we can tell time.

The clock shows one o'clock.
The minute hand is at 12. It goes all the way around the clock. The hour hand goes from 1 to 2. When the minute hand goes all the way around the clock, an hour passes. Now it is two o'clock.

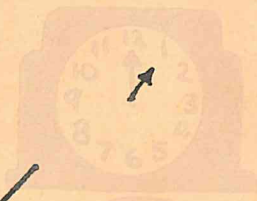
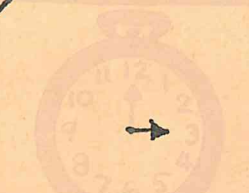
←This clock shows three o'clock.

This clock shows four o'clock.→

Answers for page 84: yes, no, no; yes, no, no

a. 4 b. 1 c. 8 d. 5 e. 2 f. 9 g. 6 h. 3 i. 7

Draw a black line to the number and word on the left to show what time the clock says. Draw an orange line to the words on the right that tell what time it is.

3 o'clock		four o'clock
6 o'clock		nine o'clock
1 o'clock		five o'clock
12 o'clock		ten o'clock
11 o'clock		one o'clock
2 o'clock		six o'clock
7 o'clock		eleven o'clock
4 o'clock		two o'clock
8 o'clock		seven o'clock
10 o'clock		twelve o'clock
9 o'clock		eight o'clock
5 o'clock		three o'clock

Check your answers with page 89.

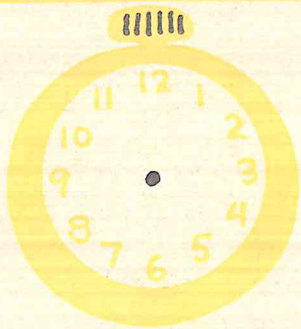
Answers for page 85: 1. 2 2. 2, yes 3. 2 4. 6

More Telling Time

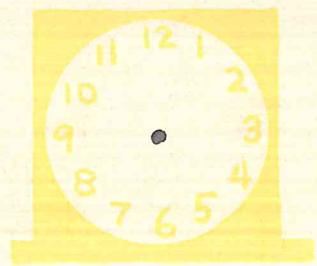
Draw hands on the clocks to show the time written below each.

A.

2 o'clock

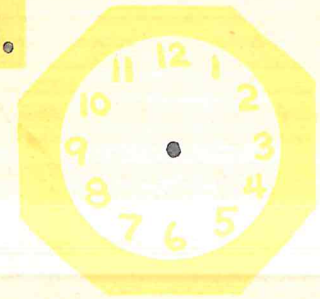


9 o'clock

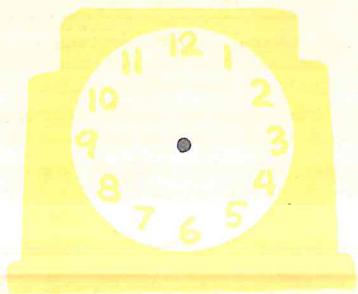


11 o'clock

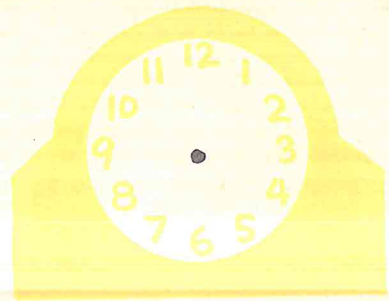
B.



ten o'clock

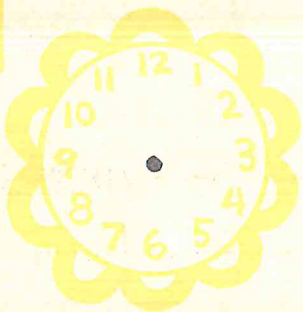


3 o'clock

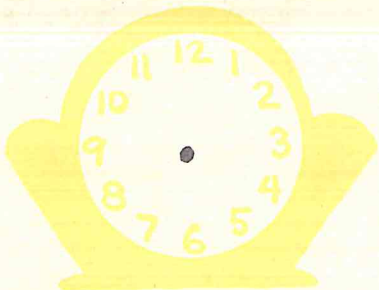


12 o'clock

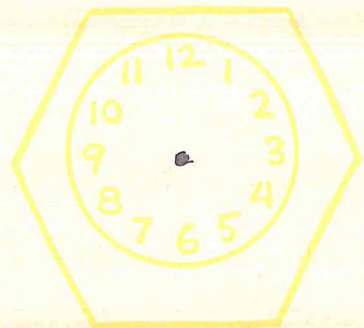
C.



four o'clock

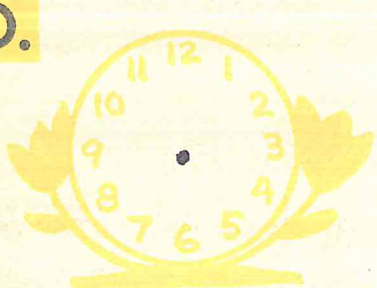


8 o'clock

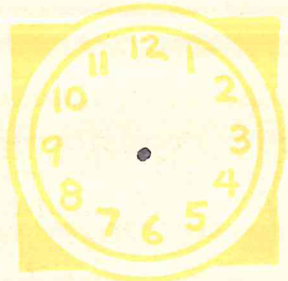


six o'clock

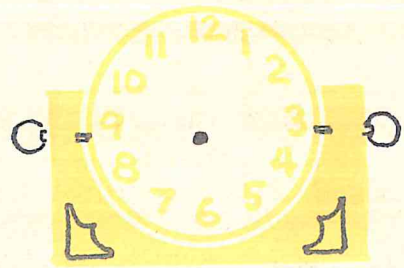
D.



7 o'clock



five o'clock



one o'clock

Check your answers with page 90.

Clock A

The long minute hand is on 12.
The short hour hand is on 2.
It is two o'clock.

If the long hand goes all the way around the clock, an hour will be gone. The short hand will be on 3 and it will be three o'clock.

Clock B

Clock C

The minute hand has not gone all the way around the clock. It is on 6. It is only half way around the clock. Has an hour passed? No, only half an hour has passed. We say it is half past two o'clock or half past two.

half past three

half past ten

half past twelve

The words tell what time it is, so do the hands.

On what number is the long hand when it is 6 o'clock? _____

On what number is the long hand when it is half past 12? _____

Check your answers with page 91.

Answers for page 87: 1 o'clock, one o'clock; 2 o'clock, two o'clock; 3 o'clock, three o'clock; 4 o'clock, four o'clock; 5 o'clock, five o'clock; 6 o'clock, six o'clock; 7 o'clock, seven o'clock; 8 o'clock, eight o'clock; 9 o'clock, nine o'clock; 10 o'clock, ten o'clock; 11 o'clock, eleven o'clock; 12 o'clock, twelve o'clock

Draw a line from each clock to the words which show what time it is.

1. half past eight

2. half past four

3. half past six

A.

4.

5.

6.

half past nine

half past three

half past twelve

Draw the hands on the clocks to show the time written below each one.

B.

C.

D.

half past two

half past five

half past eleven

E.

F.

G.

half past ten

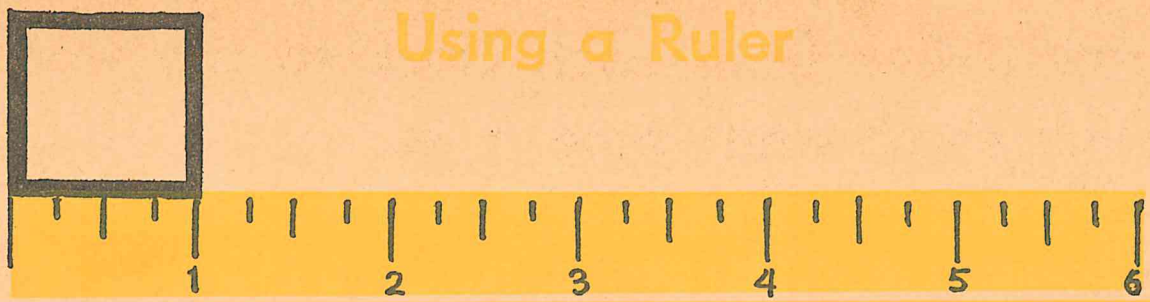
half past one

half past seven

Check your answers with page 92.

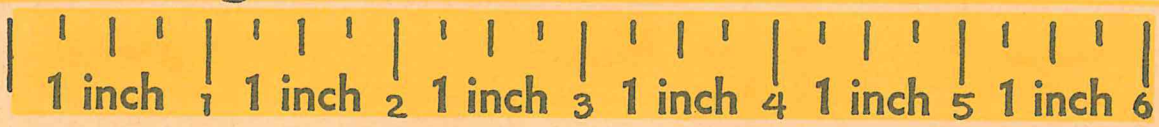
Answers for page 88:

Using a Ruler



Here is a ruler. We use a ruler to measure things. We measure things to see how long they are, how short they are, how tall they are, and how wide they are.

Look at the ruler in the picture. See which end is on the left. The ruler is measuring one side of a square. The side of the square goes to the number 1 on the ruler. We say the side of the square is one inch long. Is the ruler one inch long? No. Is the ruler six inches long? Yes.



There are six inches in all on this ruler.

Do all rulers have only six inches? No.

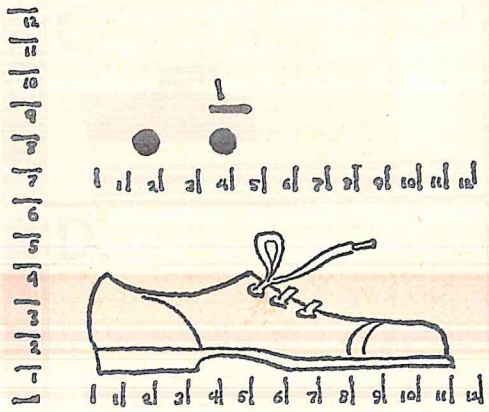
Ask Mother for a ruler with 12 inches.

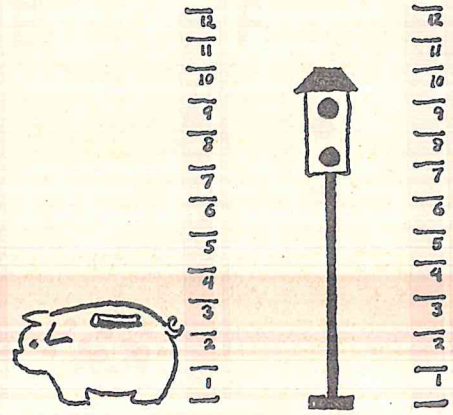
Look at the picture. Tom is measuring the sides of a picture. It is 12 inches long. When something is 12 inches long, it is a foot long.

12 inches = 1 foot

Answers for page 89: the long hand is on 12; the long hand is on 6

Look at the pictures. The ruler shows how long each thing is. Draw a line from each box to the words that tell how long that thing is.





3 inches
1 foot

10 inches
11 inches

5 inches
7 inches

Here are some lines with dots on them. Put the left end of your ruler on the black dot. Tell how many inches it is from the black dot to the colored dot.

1. • 1 inch
2. • ___ inches
3. • ___ inches
4. • ___ inches
5. • ___ inches
6. • ___ inches

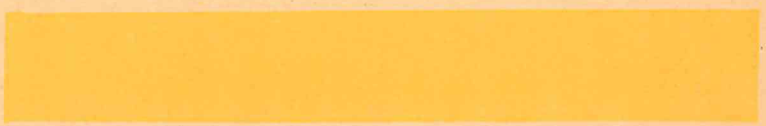
Check your answers with page 94.

Answers for page 90: A. 1. half past eight 2. half past six 3. half past twelve 4. half past three 5. half past four 6. half past nine

B. → C. ↓ D. ↑ E. ↖ F. ↗ G. ↙

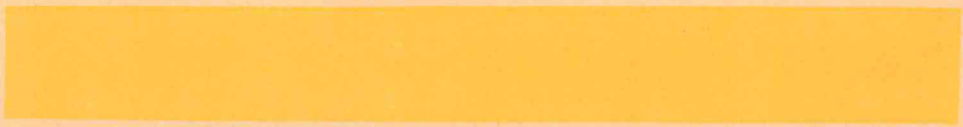
Here are some rectangles. Guess how long they are. Write that number in the box. Then use your ruler to measure each rectangle. Write that number on the line.

A.



☐ ____ inches ☐ ____ inches

B.



☐ ____ inches

C.

☐ ____ inches

D.

☐ ____ inches

E.

☐ ____ inches

F.

☐ ____ inches

Answers are at the bottom of the page.

Answers: A. 2, 4 B. 5 C. 6 D. 1 E. 3 F. 1½

Did you get the last one right?

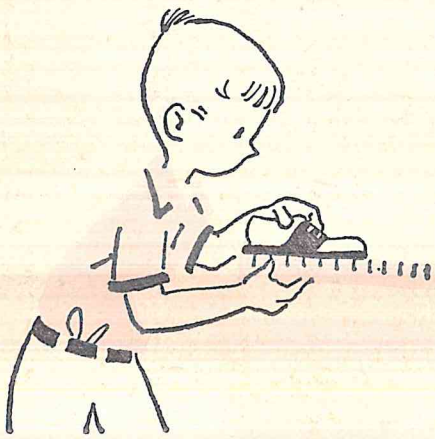
Did you guess the right answers?

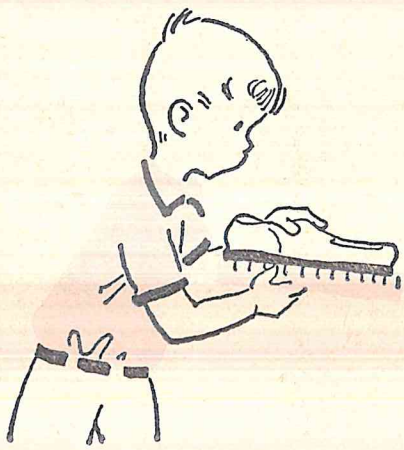
Fun With Your Ruler

Use your ruler to see how long this page is.

Is it one foot long? _____

Is it almost one foot long? _____

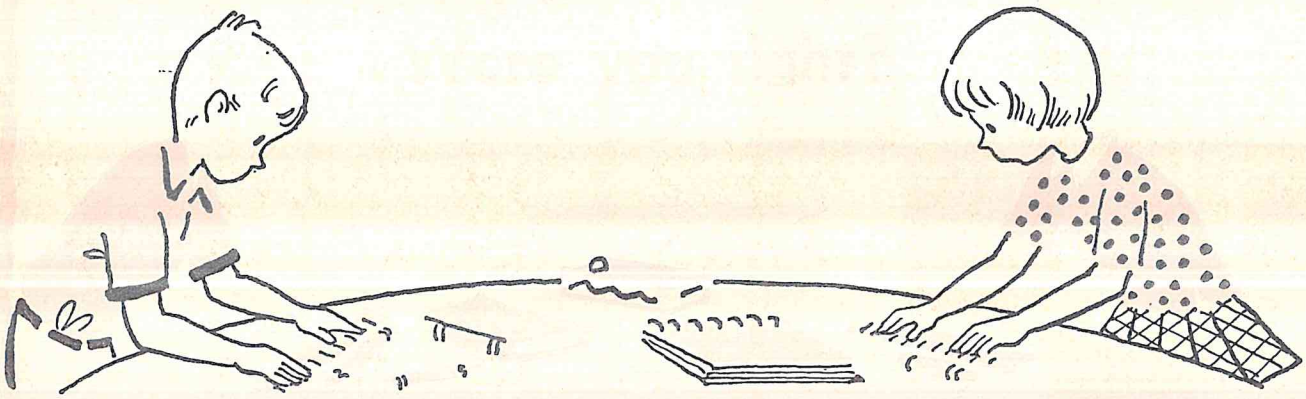




Measure your shoe. Now measure your father's shoe. Is your father's shoe longer than your shoe? _____ Is it almost one foot long? _____

Who has the longest shoe in your house? _____

Guess how long your pencil is. Measure it.



Guess how long your crayons are.

Measure one. Were you right?

Answers for page 92:

A. 1 foot B. 7 inches C. 5 inches D. 11 inches E. 3 inches

F. 10 inches 1. 1 2. 3 3. 4 4. 5 5. 2 6. 1½

Check Your Addition Facts

Ask Mother for 18 beans. Group them to show each fact.

Write the answer for each fact.

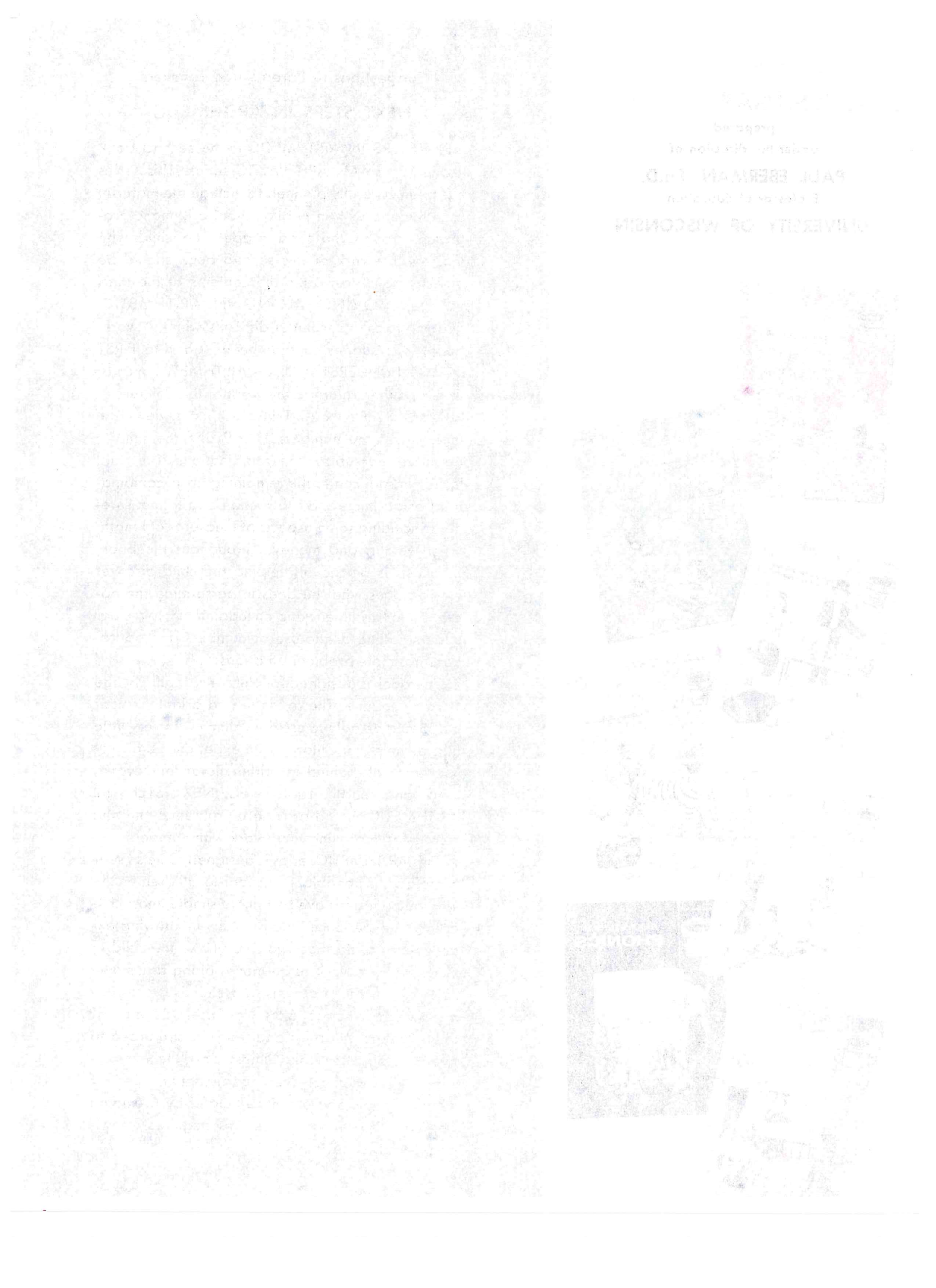
1 +1	1 +2	1 +3	1 +4	1 +5	1 +6	1 +7	1 +8	1 +9
2 +1	2 +2	2 +3	2 +4	2 +5	2 +6	2 +7	2 +8	2 +9
3 +1	3 +2	3 +3	3 +4	3 +5	3 +6	3 +7	3 +8	3 +9
4 +1	4 +2	4 +3	4 +4	4 +5	4 +6	4 +7	4 +8	4 +9
5 +1	5 +2	5 +3	5 +4	5 +5	5 +6	5 +7	5 +8	5 +9
6 +1	6 +2	6 +3	6 +4	6 +5	6 +6	6 +7	6 +8	6 +9
7 +1	7 +2	7 +3	7 +4	7 +5	7 +6	7 +7	7 +8	7 +9
8 +1	8 +2	8 +3	8 +4	8 +5	8 +6	8 +7	8 +8	8 +9
9 +1	9 +2	9 +3	9 +4	9 +5	9 +6	9 +7	9 +8	9 +9

Check Your Subtraction Facts

Use the 18 beans to check your answers.

Write the answer for each fact.

2	3	4	5	6	7	8	9	10
−1	−1	−1	−1	−1	−1	−1	−1	−1
1	2	3	4	5	6	7	8	9
3	4	5	6	7	8	9	10	11
−2	−2	−2	−2	−2	−2	−2	−2	−2
1	2	3	4	5	6	7	8	9
4	5	6	7	8	9	10	11	12
−3	−3	−3	−3	−3	−3	−3	−3	−3
5	6	7	8	9	10	11	12	13
−4	−4	−4	−4	−4	−4	−4	−4	−4
6	7	8	9	10	11	12	13	14
−5	−5	−5	−5	−5	−5	−5	−5	−5
7	8	9	10	11	12	13	14	15
−6	−6	−6	−6	−6	−6	−6	−6	−6
8	9	10	11	12	13	14	15	16
−7	−7	−7	−7	−7	−7	−7	−7	−7
9	10	11	12	13	14	15	16	17
−8	−8	−8	−8	−8	−8	−8	−8	−8
10	11	12	13	14	15	16	17	18
−9	−9	−9	−9	−9	−9	−9	−9	−9



LOOK FOR THESE

Other WHITMAN Workbooks

prepared
under the direction of

PAUL EBERMAN, Ph.D.
Professor of Education
UNIVERSITY OF WISCONSIN

Suggestions to Parents and Teachers

NEXT STEPS IN ARITHMETIC

NEXT STEPS IN ARITHMETIC is the second book in the WHITMAN ARITHMETIC series. This series has been carefully planned to include the material usually dealt with in public school arithmetic programs through the third grade. The child who masters the work of this second book should be able to move easily into the contents of the third volume, MOVING ALONG IN ARITHMETIC. Should the child encounter difficulty with this workbook, it is suggested that he go back to FIRST STEPS IN UNDERSTANDING ARITHMETIC, master that, and then return to the work of this volume.

NEXT STEPS IN ARITHMETIC first reviews the meaning of the numbers 1 to 9 and the simpler addition and subtraction combinations. The child is then introduced to the remaining basic combinations of addition and subtraction and to measurement including some aspects of measures of length, time, weight, and money. Throughout the book, emphasis is placed on helping the child discover why he does what he does in performing the operations of arithmetic and on leading him to a clear understanding of the use of numbers and operations in simple problem situations.

This book is designed for children ranging in age from six to nine. The average and bright six year old should be able to use the volume with very little outside help. For children who experience difficulty with and fall behind in arithmetic at the second, third, and fourth grade levels, NEXT STEPS IN ARITHMETIC should provide an extremely helpful means for improving their work with numbers.

This ARITHMETIC series is designed to be as self-contained as possible. Directions to children on the workbook pages have been kept simple; most children will experience little difficulty in knowing exactly what to do. Each volume allows the child to check his own work as he moves along at his own rate; answers to problems and exercises are supplied on pages close to the work itself. Because of these features, parents and teachers are urged to avoid helping the child unless absolutely necessary. As the child achieves independent mastery of number ideas, adults can be helpful by providing opportunities for him to use his acquired knowledge in daily activities.